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# STATE COLLEGE RECORD

Vol. 39

APRIL, 1940

No. 8

# The North Carolina State College Agriculture and Engineering

of

THE UNIVERSITY OF NORTH CAROLINA



# THE CATALOG

CAnnouncements for the Session 1940-1941

STATE COLLEGE STATION RALEIGH

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#### COLLEGE CALENDAR

1940

#### First Term

Sept. 9, Monday, 3 P. M. College Faculty Meeting Sept. 10, Tuesday \*Registration of Freshmen

Sept. 11, 12, Wednesday Admission with advance standing

and Thursday

Sept. 13, Friday \*Registration of Soph., Jr., Sr., and Grad. Students

Sept. 16, Monday Class work begins

Sept. 21, Saturday, Last day in the first term for registration or change

12 Noon in registration
Oct. 21, Monday Mid-term reports due

Nov. 2, Saturday Final date for dropping a course without a grade of F

Nov. 11, Monday Observance of Armistice Day

(not a holiday)

Nov. 28, Thursday Thanksgiving holiday
Dec. 11, Wednesday First term ends

1941

Second Term

Jan. 2, Thursday \*Second term registration of all students

Jan. 3, Friday Class work begins

Jan. 7, Tuesday Last day in the second term for registration or change

in registration

Feb. 3, Monday Mid-term reports due

Feb. 12, Wednesday Final date for dropping a course without a grade of F

March 19, Wednesday Second term ends

Third Term

March 25, Tuesday \*Third term registration of all students

March 26, Wednesday Class work begins

March 31, Monday, Last day in the third term for registration or change

5 P. M. in registration

April 28, Monday Mid-term reports due
April 28-May 3, Inspection trips for seniors apr 28 - may 3

Monday-Saturday

May 7, Wednesday Final date for dropping a course without a grade of F

May 8, Thursday (not a holiday)

Observance of Scholarship Day

June 5, Thursday

Third term ends

June 8, 9,

Commencement Exercises

Sunday, Monday

#### Summer School

June 16, Monday \*Registration for summer school

June 17, Tuesday Class work begins

June 17, Tuesday Final date for registration for credit

July 25, Friday Summer term ends

Final examinations are held on the six recitation days preceding the end of each term.

<sup>\*</sup> An extra fee is charged for registration after the day designated for registration.

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<sup>\*</sup> Resigned.

<sup>\*\*</sup> Deceased.

<sup>†</sup> On leave.

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\*\* Deceased.

<sup>\*</sup> Resigned effective June 30, 1940.

<sup>†</sup> On leave.

- MARTIN ALLEN HAGERSTRAND, Instructor in Military Science and Tactics. Sergeant, DEML, U. S. Army; Graduate, Thomason Act School; U. S. Army.
- Frederick Morgan Haig, Associate Professor of Animal Husbandry and Dairying.
  - B.S., University of Maryland; M.S., N. C. State College.
- REINARD HARKEMA, Assistant Professor of Zoology.

  A.B., Calvin College; Ph.D., Duke University.
- Thomas Perrin Harrison, Dean Emeritus of the College; Editor of Official College Publications.
  - B.S., Citadel; Ph.D., Johns Hopkins University; LL.D., Citadel.
- THOMAS ROY HART, Professor of Weaving and Designing. B.E., T.E., M.S., N. C. State College.
- LODWICK CHARLES HARTLEY, Associate Professor of English.

  B.A., Furman University; M.A., Columbia University; Ph.D., Princeton University.
- ARTHUR COURTNEY HAYES, Instructor in Textile Chemistry and Dyeing.
  Ph.B., Brown University; M.S., N. C. State College.
- CHARLES McGEE HECK, Professor of Physics.

  A.B., Wake Forest College; M.A., Columbia University.
- WILLIAM NORWOOD HICKS, Associate Professor of Ethics and Religion.

  B.E., N. C. State College; A.B., Duke University; M.A., Oberlin College; M.S., N. C. State College.
- JOHN THOMAS HILTON, Professor of Yarn Manufacture.

  Diploma Bradford Durfee Textile School; B.S., M.S., N. C. State College.
- LAWRENCE EARLE HINKLE, Professor of Modern Languages.

  B.A., University of Colorado; M.A., Columbia University; D.S.es L., Dijon.
- ELMER GEORGE HOEFER, Professor of Mechanical Engineering.

  B.S. in M.E., M.E., University of Wisconsin.
- JULIUS VALENTINE HOFMANN, Professor of Forestry. B.S.F., M.F., Ph.D., University of Minnesota.
- EARL HENRY HOSTETLER, Professor of Animal Husbandry.

  B.S. in Agr., Kansas State Agricultural College; M.Agr., M.S., N. C. State College.
- FRANKLIN CARLISLE JOHNSON, Assistant Professor of Chemical Engineering.

  B.S., North Carolina State College; M.S., Massachusetts Institute of Technology.
- THEODORE SEDGWICK JOHNSON, Professor of Industry.

  B.S., Denison University; C.E., Ohio State University; M.S., Denison University.
- ARTHUR DAVE JONES, Assistant Professor of Chemistry.
  A.B., A.M., University of Cincinnati.
- ROBERT EDWARD JONES, Assistant Professor of Military Science and Tactics.

  Major, Infantry, U. S. Army; Graduate, Infantry School, Fort Benning, Ga.
- WALTER EDWARD JORDAN, Associate Professor of Chemistry. B.S., M.A., Wake Forest College; M.S., N. C. State College.
- LEROY MONROE KEEVER, Associate Professor of Electrical Engineering. B.E., M.S., N. C. State College.

- HENDERSON GRADY KINCHELOE, Instructor in English.

  A.B., University of Richmond; A.M., Harvard University.
- LEONARD MARION KNIGHT, Instructor in Military Science and Tactics.

  Sergeant, DEML, U. S. Army.
- WILLIAM WURTH KRIEGEL, Instructor in Ceramic Engineering.

  B.S. in Civil and Ceramic Engineering, University of Washington; M.S., Montana School of Mines; D.R.Ing., Technische Hochschule, Hanover, Germany.
- ARTHUR I. LADU, Professor of English.

  A.B., Syracuse University; M.A., Ph.D., University of North Carolina.
- CLAUDE MILTON LAMBE, Instructor in Civil Engineering. B.E., N. C. State College.
- FORREST WESLEY LANCASTER, Assistant Professor of Physics. B.S., Ch.E., Purdue University.
- GERALD LANGFORD, Instructor in English.
  B.A., M.A., University of Virginia.
- BRYON ELMER LAUER, Associate Professor of Chemical Engineering.

  B.S. in Ch.E., Oregon State College; M.S. in Ch.E., Ph.D., University of Minnesota.
- MARC C. LEAGER, Professor of Statistics and Accounting. B.S., M.S., University of Minnesota; Ph.D., Columbia University.
- JOHN EMERY LEAR, Professor of Electrical Engineering.

  B.S. in E.E., Virginia Polytechnic Institute; E.E., Texas A. & M. College.
- FRANK ADOLPH LEE, JR., Assistant Professor of Mathematics.
  A.B., Randolph Macon College; M.A., University of Virginia.
- SAMUEL GEORGE LEHMAN, Professor of Plant Pathology.

  B.S. in Ed., Ohio University; M.S., N. C. State College; Ph.D., Washington University.
- HENRY PETERSON LEIGHTON, Instructor in Military Science and Tactics.
  Staff Sergeant, DEML, U. S. Army.
- JACK LEVINE, Associate Professor of Mathematics.

  A.B., University of California at Los Angeles; Ph.D., Princeton University.
- JOHN GARY LEWIS, Assistant Professor of Textiles. B.S., M.S., N. C. State College.
- DAVID ALEXANDER LOCKMILLER, Associate Professor of History and Political Science.
  - $B.Ph.,\ M.A.,\ Emory\ University;\ LL.B.,\ Cumberland\ University;\ Ph.D.,\ University\ of\ North\ Carolina.$
- JAMES FULTON LUTZ, Associate Professor of Soils. B.S., N. C. State College; M.A., Ph.D., University of Missouri.
- FRANK HALLAM LYELL, Instructor in English.

  A.B., University of Virginia; M.A., Columbia University; Ph.D., Princeton University.
- CHARLES WALKER MADDISON, Instructor in Foundry.
- †ROBERT JAMES MADDISON, Instructor in Foundry. B.S. in M.E., Newark College of Engineering.

<sup>†</sup> On leave.

15

- CARROLL LAMB MANN, Professor of Civil Engineering. B.S., C.E., N. C. State College.
- ROGER POWELL MARSHALL, Assistant Professor of English.

  B.A., Wake Forest College; M.A., Columbia University; M.S., N. C. State College.
- FRANCIS EARL MASK, Instructor in Mathematics. B.S., M.S., N. C. State College.
- JOE THOMAS MASSEY, Instructor in Engineering Mechanics, B.S., N. C. State College.
- FREDERICK HAROLD MCCUTCHEON, Assistant Professor of Zoology.

  B.S., M.S., North Dakota State College; Ph.D., Duke University.
- WILLIAM MCGEHEE, Assistant Professor of Psychology.

  B.A., University of the South; M.A., Ph.D., Peabody College.
- HERMAN RUSSELL MCLAWHORN, Jr., Instructor in Architecture.

  B.S., North Carolina State College; B.F.A., Yale University; Registered Architect.
- FRANK BARNARD MEACHAM, Assistant Professor of Zoology and Entomology.

  B.S., M.S., N. C. State College.
- JEFFERSON SULLIVAN MEARES, Associate Professor of Physics. B.S., University of South Carolina; M.S., N. C. State College.
- ZENO PAYNE METCALF, Director of Instruction, School of Agriculture and Forestry and Professor of Zoology.

  A.B., Ohio State University; D.Sc., Harvard University.
- GORDON KENNEDY MIDDLETON, Professor of Plant Breeding. B.S., N. C. State College; M.S., Ph.D., Cornell University.
- MARSHALL WILLIAM MILLAR, Instructor in Education.
  B.S., Stout Institute.
- ARTHUR STEHMAN MILLER, Instructor in Economics.

  B.S., Elizabethtown College; M.B.A., University of Pennsylvania.
- JOHN FLETCHER MILLER, Head of Department of Physical Education and Athletics.
  - B.Pd., Central Missouri Teachers' College; B.P.E., Springfield College of Physical Education.
- WILLIAM DYKSTRA MILLER, Associate Professor of Forestry. B.A., Reed College; M.F., Ph.D., Yale University.
- THEODORE BERTIS MITCHELL, Professor of Zoology and Entomology.

  B.S., Massachusetts Agricultural College; M.S., N. C. State College; D.Sc., Harvard University.
- REUBEN O. MOEN, Professor of Business Administration. B.A., M.A., Ph.D., University of Iowa.
- PERRY EARL MOOSE, Assistant Professor of Mechanical Engineering. B.S., N. C. State College; M.S., Purdue University.
- CAREY GARDNER MUMFORD, Associate Professor of Mathematics. B.A., Wake Forest College; A.M., Duke University.
- HOWARD M. NAHIKIAN, Instructor in Mathematics.
  A.B., M.A., Ph.D., University of North Carolina.

- THOMAS LEWIS NASH, Instructor in Mechanical Engineering. Graduate, United States Naval Academy.
- THOMAS NELSON, Dean of the Textile School. D.Sc., N. C. State College.
- EDWIN HUGH PAGET, Associate Professor of English. B.L., Northwestern: M.A., University of Pittsburgh.
- CHARLES BENJAMIN PARK, Instructor Emeritus in Machine Shop.
- HUBERT VERN PARK, Assistant Professor of Mathematics. A.B., Lenoir-Rhyne College; M.A., Ph.D., University of North Carolina.
- JOHN MASON PARKER, III. Assistant Professor of Geology. A.B., A.M., Ph.D., Cornell University.
- LESLIE RENDALL PARKINSON, Assistant Professor of Aeronautical Engineering. B.S., Guggenheim School of Aeronautics, New York University.
- JEHU DEWITT PAULSON, Associate Professor of Architecture. B.F.A., Yale University.
- ROBERT JAMES PEARSALL, Assistant Professor of Electrical Engineering. B.E., N. C. State College.
- George Buren Peeler, Instructor in Weaving and Designing. B.S., N. C. State College.
- JOSHUA PLUMMER PILLSBURY, Professor of Landscape Architecture. B.S., Pennsylvania State College.
- ROBERT FRANKLIN POOLE, Professor of Plant Pathology. B.S., Clemson College; M.S., Ph.D., Rutgers University; D.Sc., Clemson College.
- GLENN ORVICE RANDALL, Associate Professor of Horticulture. B.S., University of Arkansas; M.S., Iowa State College.
- EDGAR EUGENE RANDOLPH, Professor of Chemical Engineering. A.B., A.M., Ph.D., University of North Carolina.
- †WILLIS ALTON REID, Instructor in Chemistry. B.S., Wake Forest College.
- ROBERT BARTON RICE, Professor of Experimental Engineering. B.S., Tufts College; A.M., Columbia University.
- WALLACE CARL RIDDICK, Dean Emeritus of the School of Engineering and Professor of Hydraulics.
  - A.B., University of North Carolina; C.E., LL.D., Lehigh University; LL.D., Wake Forest College.
- Jackson Ashcraft Rigney, Instructor in Field Crops and Plant Breeding. B.S., New Mexico State College; M.S., Iowa State College.
- MACON ROGERS ROWLAND, Instructor in Mechanical Engineering. B.S., N. C. State College.
- Robert Henry Ruffner, Professor of Animal Husbandry and Dairying. B.S., University of Maryland; M.S., N. C. State College.

<sup>†</sup> On leave.

- CARL NICHOLS SANFORD, Instructor in Mechanical Engineering. B.S. in M.E., Oregon State College.
- GEORGE HOWARD SATTERFIELD, Professor of Biochemistry. A.B., Duke University; B.S., University of North Carolina; M.A., Duke University.
- Howard Ernest Satterfield, Associate Professor of Experimental Engineering.

B.S. in M.E., M.E., Purdue University.

- IRA OBED SCHAUB, Dean of the School of Agriculture and Forestry and Director of Agricultural Extension.
  - B.S., N. C. State College; D.Sc., Clemson College.
- WAYLAND PRITCHARD SEAGRAVES, Instructor in Mathematics. B.S., M.S., N. C. State College.
- L. WALTER SEEGERS, Assistant Professor of History. A.B., Muhlenberg College; A.M., University of Pennsylvania.
- Walter Eugene Selkinghaus, Instructor in Mechanical Engineering. B.S., Newark College of Engineering.
- \*RAYMOND ROLLINS SERMON, Associate Professor of Physical Education. B.P.E., Springfield College of Physical Education; B.E., D.O., Kirksville School of Osteopathy.
- HOWARD BURTON SHAW, Professor of Industrial Engineering. A.B., B.C.E., University of North Carolina; A.M., Harvard University.
- ALFRED BERNARD ROWLAND SHELLEY, Instructor in English. B.S., Tufts College; A.M., Harvard University.
- WILLIAM EDWARD SHINN, Associate Professor of Weaving and Designing. B.S., M.S., North Carolina State College.
- MERLE FRANKLIN SHOWALTER, Associate Professor of Chemistry. A.B., Indiana University; M.S., Purdue University.
- CLARENCE B. SHULENBERGER, Associate Professor of Accounting. A.B., Roanoke College; A.M., Columbia University.
- †Ross Edward Shumaker, Projessor of Architecture. B.Arch., Ohio State University; Registered Architect.
- IVAN VAUGHAN DETWEILER SHUNK, Associate Professor of Botany. A.B., A.M., University of West Virginia; Ph.D., Rutgers University.
- WILLIAM ERNEST SINGER, Assistant Professor of Chemistry. A.B., Manchester College; Ph.D., Pennsylvania State College.
- George Kellogg Slocum, Assistant Professor of Forestry. B.S., M.S., N. C. State College.
- George Wallace Smith, Professor of Engineering Mechanics. B.S.E.E., University of North Carolina; M.S.E. in C.E., D.Sc., University of Michigan.
- \*Glenn R. Smith, Assistant Professor of Agricultural Economics. B.S., M.S., N. C. State College; Ph.D., Cornell University.
- JOHN WARREN SMITH, Associate Professor of Industrial Education. B.S., Miami University, Oxford, Ohio; M.S., Columbia University.

<sup>\*</sup> Resigned effective July 1, 1940. † On leave until January 1940.

- RAYMOND FRANKLIN STAINBACK, Assistant Professor of Physics. S.B., S.M.E., University of North Carolina.
- Ross Oliver Stevens, Associate Professor of Zoology. B.S., M.S., University of Michigan.
- MAURICE ALEXANDER STRICKLAND, Instructor in Economics. B.S., University of Georgia; M.B.A., Ph.D., New York University.
- JASPER LEONIDAS STUCKEY, Professor of Geology. A.B., A.M., University of North Carolina; Ph.D., Cornell University.
- PAUL PORTER SUTTON, Instructor in Chemistry. Ph.D., Johns Hopkins University.
- CLARENCE DALTON SWAFFAR, Instructor in Animal Husbandry. B.S., Oklahoma A. and M. College.
- DAVID BOYD THOMAS, Instructor in Mathematics. B.S., M.S., N. C. State College.
- HORACE CARTER THOMAS, Instructor in Military Science and Tactics. Technical Sergeant, DEML, U. S. Army.
- HARRY TUCKER, Professor of Highway Engineering and Director of the Engineering Experiment Station. B.A., B.S., C.E., Washington and Lee University.
- BLAKE RAGSDALE VAN LEER, Dean of the School of Engineering. B.S. in E.E., M.E., Purdue University; M.S., University of California.
- †WILLIAM GARDNER VAN NOTE, Assistant Professor of Chemical Engineering. C.E., Rensselaer Polytechnic Institute; M.S., University of Vermont.
- LILLIAN LEE VAUGHAN, Professor of Mechanical Engineering. B.E., N. C. State College; M.E., Columbia University.
- EDMUND M. WALLER, Instructor in Physical Education. Freshman Football Coach.
  - A.B., Vanderbilt University, M.A., Peabody College.
- ROBERT SULLIVAN WARREN, Assistant Professor of Physical Education and Assistant Coach of Football.
  - D.O., American School of Osteopathy; B.S., N. C. State College.
- DAVID STATHEM WEAVER, Professor of Agricultural Engineering. B.S., Ohio State University; M.S., N. C. State College.
- JAMES GRAY WEAVER, Assistant Professor of Horticulture. B.S., M.S., N. C. State College.
- BERTRAM WHITTIER WELLS, Professor of Botany. A.B., M.A., Ohio State University; Ph.D., University of Chicago.
- FRED BARNETT WHEELER, Professor of Practical Mechanics and Superintendent of Shops.
  - B.E., M.E., N. C. State College.
- LARRY ALSTON WHITFORD, Assistant Professor of Botany. B.S., M.S., N. C. State College.

<sup>†</sup> On leave.

- CHARLES BURGESS WILLIAMS, Professor of Agronomy. B.S., M.S., N. C. State College.
- FRED CARTER WILLIAMS, Instructor in Architecture.

  B.S., N. C. State College; B.S., University of Illinois.
- HARVEY PAGE WILLIAMS, Associate Professor of Mathematics. B.A., William and Mary College; M.A., Duke University.
- LEON FRANKLIN WILLIAMS, Professor of Organic Chemistry.
  A.B., A.M., Trinity College; Ph.D., Johns Hopkins University.
- NORWOOD WADE WILLIAMS, Assistant Professor of Poultry.

  B.S., M.S., N. C. State College.
- ARTHUR JOHN WILSON, Professor of Analytical Chemistry. B.S., M.S., N. C. State College; Ph.D., Cornell University.
- THOMAS LESLIE WILSON, Assistant Professor of English.
  A.B., Catawba College; A.M., Wofford College.
- EDWIN WEEMS WINKLER, Assistant Professor of Electrical Engineering. S.B., Montana State College; M.S., University of North Carolina.
- SANFORD RICHARD WINSTON, Professor of Sociology.

  B.A., Western Reserve University; Ph.D., University of Minnesota.
- LOWELL S. WINTON, Assistant Professor of Mathematics.

  B.S., Grove City College; M.A., Oberlin College; Ph.D., Duke University.
- LENTHALL WYMAN, Professor of Forestry.
  A.B., M.F., Harvard University.
- WILLARD KENDALL WYNN, Assistant Professor of English.

  A.B., Wofford College; M.A., Emory University; M.A., Columbia University.
- ROBERT BAKER WYNNE, Instructor in English and Public Speaking.
  A.B., A.M., William and Mary College.

#### Teaching Fellows, 1939-40

W. F. Alston, Botany

J. J. Amero, Ceramic Engineering

S. E. Bagley, Textile Chemistry and Dyeing

E. A. Bailey, Chemistry

J. B. Ballentine, Chemistry

T. A. Bell, Chemistry

Leslie C. Brooks, Mathematics

Frank B. Brown, Jr., Physics

W. T. Burnette, Chemistry

David Colvin, Chemistry

L. R. Crane, Engineering Mechanics

L. F. Drum, Chemistry

G. A. Gillenwater, Engineering

Mechanics

J. F. Gilmore, Engineering

Mechanics

M. S. Hayworth, Civil Engineering

George P. Jones, Jr., Geological

Engineering

J. L. Katz, Chemistry

Ray Otis Lackey, Animal Husbandry

J. P. McMenamin, Botany

E. S. Millsaps, Jr., Field Crops

Hubert Lee Morgan, Jr., Electrical Engineering

Charles E. Peters, Mathematics

J. J. Pratt, Zoology and Entomology

T. L. Quay, Entomology

M. E. Ray, Civil Engineering

S. C. Schell, Zoology and Entomology

J. F. Seely, Chemical Engineering

D. J. Shaw, Textile Chemistry and Dyeing

W. A. Sherratt, Industrial Arts

C. B. Shimer, Botany

R. C. Walter, Mechanical Engineering

R. W. Whitley, Chemistry

R. W. Wrenn, Chemistry

#### Research Fellows, 1939-40

E. B. Browne, Field Crops and Plant Breeding

C. I. Bunn, Wildlife Conservation and Management

Oscar William Deyton, Animal Husbandry

Albert Doub, Jr., Agricultural Economics

J. W. Farrior, Field Crops and Plant Breeding

G. R. Fowler, Plant Pathology

J. W. Gibert, Field Crops and Plant Breeding

R. M. Gibson, Field Crops and Plant Breeding

R. H. Grady, Civil Engineering

B. D. Hargrove, Soils

L. W. Herrick, Poultry

W. R. Hodgen, Soils

C. B. Huffaker, Entomology

Ralph S. Johnson, Plant Pathology

R. C. Larkin, Agricultural Economics W. J. Majure, Wildlife Conservation

and Management

N. R. Page, Soils

L. F. Remmert, Soils

H. F. Robinson, Field Crops and Plant Breeding

D. L. Stoddard, Plant Pathology

H. L. Sweezy, Plant Pathology

M. H. Taylor, Wildlife Conservation and Management

K. D. Tovey, Soils

C. W. Turner, Soils

#### Student Assistants, 1939-40

Arnold C. Aspden, English C. C. Chadbourn, English

H. R. Crawford, English

Macon M. Dalton, Mathematics

Collins Horner, English T. C. Jones, Zoology

Robert V. Lamb, Mathematics

J. McGinnis, Zoology

E. W. McLeod, Yarn Manufacture

John H. Nichols, Electrical Engineering

R. J. Payne, Weaving

A. W. Powell, Dyeing

J. E. Rogers, Yarn Manufacture

G. R. Sedberry, Weaving

Nathaniel Stetson, English

H. M. Taylor, Jr., Mathematics

#### II. GENERAL INFORMATION

#### THE COLLEGE

Establishment.—The North Carolina State College of Agriculture and Engineering is one of the Land-Grant Colleges established under the provisions of the Morrill Act, passed by the Congress of the United States, June 2, 1862. The first session of the College was that of 1889-1890. Prior to that date, the funds received by the State under the Land-Grant Act had been used by the University of North Carolina, at Chapel Hill.

The name, The North Carolina College of Agriculture and Mechanic Arts, used in the establishment of the College, was changed by the General Assembly—the Legislature of the State—in 1917 to its present form.

In its session of 1931, the General Assembly passed an Act, of which the following is the first section: "That the University of North Carolina, the North Carolina State College of Agriculture and Engineering, and the North Carolina College for Women are hereby consolidated and merged into "The University of North Carolina'."

This Act placed the three institutions under one Board of Trustees and one President, the separate affairs of each institution being in charge of its own Administrative Dean. The effect of the Act, by correcting unnecessary duplication and focalizing the work of each of its members, has tended to create a strong, unified State University.

Location.—State College Campus of thirty acres lies within the limits of Raleigh, a mile and a quarter west of the State Capitol, on United States Highway, Route 1. Adjoining the Campus westward, occupying four hundred fifty-six additional acres, are the College orchards, gardens, poultry yards, and the Central State Experiment Farms.

A mile from the Campus, still farther westward, the College has recently acquired a tract of thirteen hundred acres, which is already being developed for experiment and research, and for demonstration, in Animal Husbandry. In the plans, special provision is being made for work in Dairy Industry in all its branches. Ample funds are available for suitable buildings and laboratories.

The portion of this tract not at present adapted for its special use will be taken in charge for development by the Forestry Department of the College.

Organization.—The organization of State College has as its objectives Campus Teaching, Extension Teaching, and Research.

Campus Teaching occupies the School of Agriculture and Forestry, the School of Engineering, the Textile School; the Division of Teacher Training, the Graduate Division, the Basic Division, and the Summer Session. The Schools and the Basic Division are organized for teaching by Departments. The details of the organization, the equipment, and the work of each School, and of each Department are given under the various headings in the later pages of this Catalog. The work of the Summer Session is set forth in a

special issue of STATE COLLEGE RECORD published each year in December, a copy of which is sent on request.

The Division of Military Training, including as the Reserve Officers Training Corps, students of all classes in all Schools, is placed immediately under the College Administration.

Extension Teaching is directed under the Division of College Extension. The work is closely coördinated with the work in the regular Departments of the College. In certain short courses, most of them in Agriculture and in Engineering, Extension overlaps with Campus Teaching. The whole State is covered in the activities of the Agricultural Extension Service.

Research is conducted, by individuals or by Departments, very generally at State College. Specially organized work is done through the Agricultural Experiment Station, the Engineering Experiment Station, and the Textile Research Department.

The Campus.—The Campus of State College presents an agreeably rolling terrain with adequate space west and south for expansion. Located on the eastern edge of the Piedmont Region of the State, within twenty-five miles of the Coastal Plain, opportunity is afforded for a pleasing variety of trees and shrubs in the landscaping. Fortunately, in the early years of the College a long-range plan for growth was made. This plan is now being intelligently followed.

Under the sections of the Catalog devoted to Schools and their Departments and to Divisions, are placed descriptions of buildings, laboratories, and facilities of each of these.

General Service Buildings.—Holladay Hall, named for Colonel Alexander Quarles Holladay, first President of the College, 1889-1899, contains the general administrative offices of the College, and the offices and classrooms of the Military Division and of the Division of Teacher Training.

The D. H. Hill Library, named for Doctor Daniel Harvey Hill, President of the College, 1908-1916, was dedicated in 1926. It contains now about 55,000 volumes, exclusive of Government documents, and pamphlets.

The Y. M. C. A. building, the erection of which was made possible by a donation from the Rockefeller Foundation, serves the religious and social life of the College.

The Dining Hall, an H-shaped building, with kitchens, storage rooms, pantries, and refrigerators and other mechanical devices in the center and basement, has at each side, front and rear, a spacious dining hall. The service is on the cafeteria plan.

The Frank Thompson Gymnasium, named in honor of Frank Martin Thompson, distinguished athlete, graduate of State College, Class of 1910, killed in service during the World War, is thoroughly equipped and modern in all its appointments.

The Infirmary, recently enlarged and renovated, is a model of a small, special hospital.

Pullen Hall, named in honor of R. Stanhope Pullen, donor of first sixty

acres of the College land, has classrooms on the first and basement floors, on the second floor, the College auditorium.

The Power Plant, recently erected, centrally located, furnishes heat, electric power, and hot water to all buildings on the Campus using these services.

Twelve College Dormitories now in use accommodate approximately 1600 students. Other students will room, as at present, in homes in the vicinity of the Campus and in fraternity houses. Full information in regard to dormitories is sent by the Registrar to applicants accepted for admission to the College, or by the Superintendent of Dormitories.

#### INFORMATION FOR APPLICANTS

#### I. Admission

1. The first step toward admission to State College is to get from the Registrar, who is to be addressed at State College Station, Raleigh, a certificate blank. After the blank has been filled out and signed by the principal or the superintendent of the high school or other preparatory school, the certificate is sent to the Registrar for his decision on admission, notice of which will be given promptly.

The certificate must contain a statement from the school last attended of the good moral character of the applicant.

- 2. Undergraduate students may be admitted as regular or special.
  - A regular students is one who is registered in a four-year curriculum.
  - (2) Women may be admitted as regular students provided they present a minimum of forty-eight semester-hours credit of advanced college standing and register in one of the regular curricula.
  - (3) A special student is a person of mature age already engaged in some vocation in which instruction is desired. Such person may, upon presenting a satisfactory record of education and upon recommendation of the Dean of the School concerned, be admitted without the usual entrance requirements.

Special students are not eligible for a degree, nor does work done as a special student have value for credit toward a degree. A special student cannot represent the College in any intercollegiate contest nor become a member of a fraternity.

- 3. Requirements for admission of regular students.
  - (1) Sixteen years is the minimum age for admission.
  - (2) Fifteen units of credit, specified and elective as indicated below, are required for admission to the freshman class of four-year courses.

- (3) In exceptional instances a person of mature age may be admitted by the Dean of the School on the basis of his ability to carry the regular work of a curriculum in that school.
- (4) A unit is allowed for a subject pursued for a year, five periods a week, each period being at least forty minutes, and successfully passed in a high school accredited by the North Carolina State Department of Public Instruction or other preparatory school accredited by competent authority.
- (5) Applicants graduated by non-accredited four-year high schools may be admitted by passing successfully an entrance examination such as that prepared by the Examination Committee of the North Carolina College Conference.
- 4. Subjects required for admission.
- (1) Specified Subjects .-

Units o	of Credit
English: Grammar, Composition, Literature	3
History: United States or equivalent	1
Algebra to Quadratics	1
Algebra, Quadratics through Progressions	
Plane Geometry	1
*Solid Geometry	
Any Science listed under Elective Subjects	

A student not offering for credit History of the United States is required to take the subject in his College course.

(2) Elective Subjects.—The figure following each subject represents the maximum number of credits which will be accepted, including those in required subjects. Fewer than that number may be accepted.

Science-	Units of	History and Social Science-Units	$\mathbf{of}$
	Credit	Cred	it
Biology	1	United States or Equivalent	1
Botany	1	English	1
Chemistry	1	General	1
General Science	1	Medieval and Modern	1
Geography	1	Ancient	1
Physics	1	North Carolina	.5
Physiology and Hygiene	1	Civics	1
Zoölogy	1	Sociology	1
	•	Economics	1

<sup>\*</sup> Solid Geometry is required only in the School of Engineering. A special course is offered in college for applicants who do not present this credit for entrance. No college credit is allowed for the course.

Language—		Mathematics—			
English					
French	2	Business Arithmetic	1		
German	2	Plane Geometry	1		
Latin	4	Solid Geometry	.5		
Spanish	2	Trigonometry	.5		
Miscellaneous Subjects (a total of not over 4 credits allowed)					
Agriculture	4	Drawing	1		
Bookkeeping	1	Mechanic Arts	2		
Stenography and Typewriting	1	Mill Practice	1		
		subject1			

5. Advanced standing is allowed on work done in approved colleges upon presentation of a certificate or transcript, duly signed and sealed, to the Director of Registration. The transcript is evaluated in the Registration Office to determine the maximum amount of credit and is then sent to the Dean of the School concerned for a detailed evaluation of credits which can be used in the curriculum selected.

Because of the scholastic requirements imposed upon resident students, advanced standing credit cannot be allowed for courses passed at other institutions with the lowest passing letter grade, or corresponding numerical grades. At least one year in residence is required for a degree.

#### II. Expenses

- 1. The total College expenses of a student resident of North Carolina need not for the regular College year exceed \$450, for a non-resident of this State, \$620. These amounts include the cost of room and board, heat and lights, tuition, fees and deposits, books, drawing instruments, laundry, and necessary incidentals. They do not include clothing, pocket money, or other incidentals.
- 2. Non-residents of North Carolina pay an additional tuition charge. The College Administration has defined a non-resident student as a person who comes into North Carolina from another state for the purpose of attending college.

In order to draw a clear line between resident and non-resident students, the Administration has ruled that all students whose parents have not been domiciled in North Carolina for more than six months immediately preceding the day of their first enrollment in the institution shall be termed non-resident students, with the following exceptions:

- (1) Students, twenty-one years of age at the time of their first matriculation, who have resided in North Carolina for more than one year preceding the day of their first enrollment.
- (2) Children of regular employees of the Federal Government stationed in the State of North Carolina.

- (3) Children of regular employees of the Federal Government who are employed outside of the state, but who through law are permitted to retain their North Carolina citizenship.
- (4) Students in summer sessions.

Students cannot claim a change in their resident status after matriculating. Students furnishing incomplete or incorrect information in order to secure an in-state resident status shall be liable for dishonorable dismissal.

- 3. The State law requires the prepayment of College accounts: the time and the amount of payments must conform to this law. For the convenience of students, charges for tuition and fees may be made in two installments, one in September, one in January. Six per cent is charged on payments deferred beyond these dates.
- 4. Applications for credit must be made to Mr. A. F. Bowen, Treasurer of the College, prior to registration day. Applications made later, if granted, will require a special fee of \$5 and possibly also the fee for late registration.
- 5. For each failure to meet deferred payments as scheduled, a fee of \$5 is charged.
- 6. Tuition and fees for residents of North Carolina as regular undergraduates or as special students scheduled for twelve or more credit hours are as follows:

	September Payment	January Payment
Tuition	\$40	\$40
College Fees		
Student-Activities Fee	4	4
Athletic Fee		
Agricultural, and Agricultura	al-	
Education Students Fee	2	2
*Engineering Students Fee	2	1
Textile Students Fee		
Military Deposit	10 / 13	9 2

Note.—Tuition and Fees are subject to change by the Board of Trustees without advance notice.

- 7. Any part of the military deposit left after paying for lost or damaged equipment is returned.
- 8. Non-residents of North Carolina registered in Forestry and Textiles will pay an additional \$60 in September and \$60 in January. Non-resident students registered in other curricula will pay an additional \$85 in September and \$85 in January.
  - 9. Expenses include also the following:

<sup>\*</sup> The Engineering fee paid by students includes \$1 for a subscription to "The Southern Engineer."

September January
Room Rent, if not already paid \$16.50 to \$27.00 \$16.50 to \$27.00
Books and Supplies 20.00 to 35.00 8.00
Drawing Equipment for those taking drawing 7.50 to 17.50
Military Shoes and Supplies 6.50

- 10. Room rent for the rest of the College year is the only regular payment at the March registration.
- 11. For graduate students and for special students taking fewer than twelve credit hours, tuition and fees are:
  - (1) For each credit hour per term, \$3, not including student-activities or athletic fees, which are optional.
  - (2) Matriculation fee, \$5, payable only once.
- 12. College fees include those for registration, for hospital and medical attention, for library and lectures, for laboratories and classrooms, and for physical education.
- 13. Student-activities fees include those for student government, student publications, and general student activities.
- 14. Freshmen, unless living at home with their parents are required to room in specified College dormitories.
- 15. Reservation of a room and the first payment of rent must be made before August 15 to obtain the most desirable room available. A reservation may be canceled and the payment therefore refunded upon notice before September 1, not later. Information about rooms may be had by writing Mr. T. T. Wellons, Superintendent of Dormitories.
- 16. Dormitory rooms have necessary furniture, but each student must bring own blankets, bed linen, and towels.
- 17. Board at the College Cafeteria may be paid in cash for each meal, or in tickets bought at ten per cent discount from the cash price.
- 18. The Self-Help Secretary, N. B. Watts, will, upon request, write of possible employment to those wishing to earn, while in College, money to help in paying expenses.
- 19. A refund of the amount paid the College, less the registration fee and a reasonable charge for lodging and services, is made to a student withdrawing within ten days from the date of registration; on withdrawal later, no refund will be made except of the military deposit.

#### III. Registration

- 1. A program of exercises during the first week is given each applicant for admission to the freshman class on his arrival upon the Campus.
- 2. The Certificate of Admission approved beforehand by the Registrar for the School and the Department in which the applicant wishes to register must be ready for presentation.
  - 3. The dates indicated in the College Calendar for the registration of

freshmen, of those applying for advanced credit, and of sophomores, juniors, seniors, and graduate students must be strictly observed.

- 4. For registration after the scheduled date, an extra fee of \$2 is required for the first day and \$1 for each additional day until a maximum of \$10 is reached.
- 5. Directions in detail for registration are furnished each student on entering the registration room, the Gymnasium.
- 6. Vaccination against smallpox is required at the time of registration unless the applicant furnishes a doctor's certificate indicating he has been successfully vaccinated within two years preceding his registration.
- 7. Inoculation against typhoid fever, though not compulsory, is urgently suggested for those entering the College. Free inoculation is offered by the College to all students.
- 8. All new students will be given the Tuberculin Skin Test unless they present a statement from their family physician indicating that such a test has been taken during the past year.
- 9. Admission to classes is permitted only after complete registration certified on the official card of the Registrar. All instructors will enforce this rule.

#### IV. Financial Aids and Scholarships

- 1. The Self-Help Secretary of the College Y. M. C. A. (see page 38) will assist those desiring employment to help pay expenses.
- 2. A Student Loan Fund, first established by the State College Alumni Association, amounting now to \$34,000, renders assistance to needy students of talent and high character. The Fund includes the Finley Loan Fund of \$1,000 (see below), the Masonic Loan Fund, \$4,500, the Frank M. Harper Loan Fund, \$200, and the Escheats Loan Fund of \$15,000. Contributions have also been made by the Sixth Masonic District and by the New Bern Masonic Theatre.

At present, loans, restricted to juniors and seniors, are made at 6 per cent on good security. The fund being small and kept loaned out, new loans can be made only as old ones are repaid.

The Finley Loan Fund is a memorial of William Wilson Finley by the Southern Railway Company, of which Mr. Finley was, at the time of his death, president. It is designated for needy students in Agriculture.

- 3. The John Gray Blount Scholarships were endowed by Colonel W. B. Rodman, of Norfolk, Virginia, in memory of his great-grandfather. The maximum value of each of the two scholarships is \$195.
- 4. The Champion Paper and Fibre Company provides a fund for a Fellowship to encourage graduate study and research in Chemical Engineering.
  - 5. The Syd Alexander Scholarship was endowed by Mrs. Mary R. Alex-

ander of Charlotte, North Carolina, in memory of her husband, the late Sydenham B. Alexander, alumnus and trustee of State College. The returns from the endowment—\$5,000—are awarded to a student native and resident of Mecklenburg County, North Carolina, who is pursuing a course in the School of Textiles of State College.

- 6. The Barrett Company, Distributors of Arcadian American Nitrate of Soda, offer to 4-H Club members the following one-year scholarships:
  - To the member with the most distinguished record with a Corn-Club project.
  - (2) To the member with the most distinguished record in Cotton-Club work.
  - (3) To the member with the best Tobacco-Club record.
  - (4) To the member with the best record in Horticulture.
- 7. The North Carolina Cottonseed-Crushers Association offer to 4-H Club members the following one-year scholarships:
  - (1) To the member making the best record in the Baby-Beef contest.
  - (2) To the member making the best record in a dairy project.
  - (3) To the member making the best Pig-Club record.
- 8. (1) The Chilean Nitrate Educational Bureau offers a four-year scholarship to the 4-H Club member in North Carolina making the best record for three or more years in 4-H Club work.
- (2) The Chilean Nitrate Educational Bureau also offers a hundred scholarships of \$5 each: one to the most distinguished Club boy from each of the hundred counties of North Carolina attending the 4-H Summer Short Course at State College.
- 9. Graduate Fellowships are offered each year by State College, during the current year, thirty-four teaching, twelve research fellowships. As the number of these scholarships is limited, application should be made early to the Head of the Department concerned.
- 10. As need arises, assistants in various departments are selected from upperclass or graduate students.

#### STUDENT ACTIVITIES

#### Student Government

Student Government, in accordance with an agreement between the students and the Board of Trustees of the College, undertakes "to handle all matters of student conduct, honor, and general student interest, and to promote in Campus life self-control, personal responsibility, and loyalty to the College and the student body."

The Student Council, the legislative-executive body for Student Government, is composed of one senior, one junior, and one sophomore from each of the Schools—Agriculture and Forestry, Engineering, and Textile—and

one member chosen at large from the freshman class at the beginning of the second term.

For guidance in its operation, the Constitution and Bylaws for Student Government has been adopted.

#### Student Publications

The Publications Board is composed of the editors and business managers of all student publications, the president and the past president of the junior class, the president of the Student Council, and five faculty members. The Board seeks to promote the interests of the College and of the publications, to insure coöperation between the publications, and to hold the loyal support of the faculty, the students, and the public.

The Technician, the student newspaper, is delivered to each student's mail box every Friday morning of the regular College session. The charge for the paper is included in the student's publications fee.

The Agromeck is the official annual published at the end of each scholastic year of the College. A copy of The Agromeck is also paid for by each student in his publications fee.

The Wataugan, issued twice each term, is "a strictly humor magazine." The student's publications fee covers his charge for it.

The Agriculturist, a monthly magazine in its field, was begun by the activities of the Alpha Zeta fraternity and the "Ag" Club. All students of the School of Agriculture and Forestry are concerned in this enterprise.

The Southern Engineer, the organ of the School of Engineering, is managed by the Engineers' Council. They plan to issue four numbers during the regular College session.

Pi-ne-tum is the annual of the Division of Forestry. Its contents constitute a record of persons, specially the graduating class, and of events of the year interesting to students of the Division and their friends.

#### Clubs and Societies

All clubs and societies endeavor to bring together students, several including members of the faculty, with the same interests or professional objective in order to cultivate close personal relations and fellowship. Their chief purpose is to inculcate high professional consciousness and esprit de corps; and, with a view toward the accomplishment of these ends, they afford to members an opportunity to hear and to participate in discussions of professional problems and themselves to present papers on current technical topics.

The Agricultural Club besides the usual activities, sponsors the Agricultural Fair and an annual "Barn-Warming."

The Forestry Club, having the usual program through the year, publishes its own annual, Pi-ne-tum.

La Société des Beaux Arts includes students in Architectural Engineering and those in Landscape Architecture.

The Agricultural Engineering Club brings together students of this department to discuss all phases of their specialty.

The Agricultural Education Society devotes its attention to matters of interest to students who are preparing to become teachers of agriculture.

Student Chapters in Engineering at State College represent the following national organizations:

The American Ceramic Society

The American Institute of Chemical Engineers

The American Society of Civil Engineers

The Associated General Contractors of America

The American Institute of Electrical Engineers

The National Society for the Advancement of Management

The American Society of Mechanical Engineers

The Institute of Aeronautical Sciences

Theta Tau, National Professional Engineering Fraternity, Rho Chapter, at State College, has a membership exceeding two hundred.

The Engineers' Council, composed of three students and a professor from each Department of the School of Engineering, publishes quarterly The Southern Engineer and sponsors the Engineers' Fair and Exposition.

The Tompkins Textile Society endeavors to keep abreast of whatever affects the textile industry, state, national, or foreign. For this society, the event of the year is the Textile Style Show and Exposition.

The International Relations Club, including faculty and student members, seeks to arouse intelligent and active interest in national and foreign affairs.

The Monogram Club has as its purpose to develop the highest order of sportsmanship in all athletics.

State College Life-Saving Corps, affiliated with the Red Cross, is interested in ways to accomplish the worthy ends indicated by its name.

#### Honor Fraternities and Societies

Honor Fraternities and Societies strive to encourage and reward high attainment in scholarship and character, and to instill lofty professional ideals, with leadership in contribution to existing knowledge and in service as prime objectives. The following national fraternities and societies have chapters or other organizations at State College:

Alpha Zeta: Agricultural Eta Kappa Nu: Electrical Engineering Gamma Sigma Epsilon: Chemical Kappa Phi Kappa: Teaching

Keramos: Ceramic Engineering

Lambda Gamma Delta: Agricultural Judging

Mu Beta Psi: Musical

Phi Eta Sigma: Freshman, Scholarship Phi Kappa Phi: Scholarship; Character

Phi Psi: Textile

Pi Kappa Delta: Public Speaking Sigma Pi Alpha: Language Tau Beta Pi: Engineering Upsilon Sigma Alpha: Army

Blue Key: Scholarship, Leadership, Student Activities

Scabbard and Blade: Military; Reserve Officers Training Corps

The following are organizations peculiar to State College:

The Golden Chain: Citizenship, Senior

The Order of St. Patrick: Engineer; Senior; Collegiate and Personal

Distinction

The Order of 30 and 3: Leadership; Sophomore

The Pine Burr Society: Scholarship and Extracurricular Activity

Sigma Tau Sigma: Scholarship; Textile

#### Social Fraternities

Following are the national Greek-Letter Fraternities having chapters at State College. Each chapter has in the vicinity of the Campus its own house.

Alpha Gamma Rho Alpha Kappa Pi Alpha Lambda Tau Delta Sigma Phi Kappa Alpha Kappa Sigma

Lambda Chi Alpha

Phi Kappa Tau Pi Kappa Alpha Pi Kappa Phi Sigma Alpha Mu Sigma Nu

Sigma Phi Epsilon

Sigma Pi

The Interfraternity Council, composed of two representatives from each chapter, has as its purpose to advance the interests of North Carolina State College; to promote the general interests and welfare of the associated fraternities as a body; and to insure cooperation between them in their relations with the faculty, the student body, and the public in general.

### MEDALS AND PRIZES

- 1. The Alpha Zeta Cup is awarded to the sophomore in Agriculture who during his freshman year made the highest scholastic average.
- 2. The General Alumni Association of the College presents annually a trophy to the member of the graduating class who during his College course has most distinguished himself in athletics.
- 3. The American Institute of Chemical Engineers presents annually its award to the sophomore who during his freshman year made the highest scholastic record.
- 4. The Associated General Contractors of America Prize of a year's special training in construction in the field with pay, is awarded each year by the Carolina Branch of organization to the member of the graduating class in Construction Engineering who during his sophomore, junior, and senior years has made the highest scholastic record.
- 5. The Elder P. D. Gold Citizenship Medal, founded by the late C. W. Gold in memory of his father and continued by his son, C. W. Gold, Jr., of Greensboro, North Carolina, is awarded annually to the member of the graduating class who during his sophomore, junior, and senior years has most distinguished himself in Student Citizenship. The qualities determining the award—scholarship, student leadership, athletics, and public speaking—are to be attested by the College Registrar, the Student Council, the Faculty Athletic Committee, and a committee composed of the ranking junior officer in each of the college societies in which public speaking is practiced.
- 6. The Moland-Drysdale Corporation Scholarship Cup, presented by Mr. George N. Moland, of Hendersonville, North Carolina, President of the Corporation, is awarded annually to the freshman in Ceramic Engineering who during the two terms preceding Scholarship Day, has the highest scholastic record together with interest shown in the activities of the department.
- 7. The J. C. Steele Scholarship Cup, presented by J. C. Steele and Sons, of Statesville, North Carolina, to commemorate the establishment by Mr. Steele of the first plant for the manufacture in the South of ceramic machinery, is awarded annually to the student of the three upper classes in the Department of Ceramic Engineering who has made during the three terms preceding Scholarship Day the highest scholastic record. In making the award, personality and interest in the activities of the Department are considered.
- 8. The Sigma Tau Sigma Cup is awarded annually to the senior in Textiles who has the highest scholastic record.
- 9. The Textile Colorist Medal is awarded annually to the senior who presents the best thesis on some subject in Textile Chemistry and Dyeing.
- 10. Phi Kappa Phi, Honor Scholarship Society, awards each year a gold medal to the senior who as a junior, a silver medal to the junior who as a sophomore, and a bronze medal to the sophomore who as a freshman, made, respectively, the highest scholastic records.

### PHYSICAL EDUCATION AND ATHLETICS

Professor J. F. Miller, Head

Associate Professor R. R. Sermon, Physical Education, Head Coach of Basketball and Track, Trainer.

Assistant Professor C. G. Doak, Physical Education and Intramurals.

Assistant Professor R. S. Warren, Physical Education, Assistant Coach Football and Basketball.

Instructor E. M. Waller, Physical Education, Assistant Coach Football, Supervisory Coach Boxing.

J. L. VonGlahn, Business Manager Athletics.

Wade Ison, Director Athletic Publicity.

Williams Newton, Head Coach Football and Baseball.

Herman Hickman, Assistant Coach Football and Track and Head Coach of Wrestling.

W. A. Woods, Assistant Coach Football.

R. W. Green, Head Coach Tennis.

L. W. Seegars, Assistant Coach Tennis.

C. R. Lefort, Head Coach Swimming.

Aims.—In general, the Department aims are: (a) to promote a higher standard of physical fitness through "big muscle" activities; (b) to develop habits, knowledge, appreciation, and skills in desirable sports, and athletic and gymnastic procedures; (c) to develop the habit of safe recreative activities to be indulged in after graduation.

Organization.—The Department of Physical Education and Athletics is in the Basic Division of the College. The program of service has three sections: Physical Education, offered in various curricula, for which college credit is given; Intramural Activities, for every interested student in the College; Intercollegiate Athletics, representative of the College.

Control.—All activities of the Department are controlled by the College. Physical Education and Intramural Activities are under the supervision of the Dean of the Basic Division. Intercollegiate athletic activities are under the supervision of the Athletic Council. The Head of the Department seeks balance and coördination in the work of the three sections. He delegates the work of the staff and sees that policies of the Department are carried out by them. To the Business Manager of Athletics is delegated the responsibility for business, financial, and other and all details connected with intercollegiate contests. The members of the staff are expected to give reasonable and capable assistance in any work of the Department insofar as it does not interfere with their main specialization. They are responsible to the Head of the Department for carrying out their duties.

Buildings and Fields.—The Department of Physical Education and Athletics is quartered in the Frank Thompson Gymnasium. It is among the largest and best-equipped gymnasia in the South. An attractive feature is a white-tiled swimming pool and natatorium, with modern filter and chlorinating systems. The new Field House, located at the south end of Riddick Stadium, is the headquarters of the football squad. Offices of the football-

coaching staff are located in this building. Riddick Stadium, with new concrete bleachers, seats 15,000 spectators. Freshman Field, adjacent to the Gymnasium, serves many purposes, such as freshman football, intramural games, physical-training classes, and varsity baseball. The new quarter-mile track, with its 220-yard straightaways, is located just south of the Freshman Field. It has concrete stands seating about 3,000 spectators. "Red Diamond" and "1911 Parade Field" are available for intramural contests. The College has ten excellent clay tennis courts, with some additional contemplated. Upon the completion of the new dairy barns, the site of the old barns will be used as a varsity baseball field and an intramural field.

Activities.—The College requires all students to enroll in some type of physical activity for two years, or six full terms. The classes meet twice a week and one term credit is given for each term's work. All students are required to take a physical and a medical examination at the time of registering in college. Those who have subnormal conditions of any sort are placed on the recall list. Students may receive free medical advice at any time. All freshmen are required to take a course in Health Education which meets once a week for one term. This course consists of instruction in personal hygiene by members of the Physical Education Staff. A swimming requirement is also made for all freshmen, which must be met before graduation.

The required physical training courses are so standardized that they are presented, instruction given, and examination required of each individual student on the same basis as all other college courses. Students having physical defects which would interfere with their meeting the regular class requirements are placed in a restricted group activity. In general, the physical training activities fall in one of three groups: (a) those developing individual physical efficiency, (b) those affording combative contests, (c) those occupying recreative or leisure time. Work for the most part is prescribed for freshmen, while election of activities is permitted sophomores.

Intercollegiate Athletics.—North Carolina State College is a member of the Southern Conference, and subscribes to its rules of eligibility for all intercollegiate contests. The program consists of the organization and training of representative varsity and freshman teams in the following sports: football, basketball, baseball, track, cross-country, wrestling, boxing, swimming, tennis, golf, and rifle competition.

Intramural Athletics.—Activities are fostered and promoted in many lines of athletic sports for the student body. Meets, tournaments, and leagues are seasonally organized in twelve separate sports. Participation in these activities is purely voluntary; it does not receive College credit. Sports used in this program are correlated with those used in the required class work in Physical Education. Instruction in the sports is given in the class work and opportunity for competition is provided in the intramural program. Cups, shields, and trophies are awarded winners in these competitions.

### MUSIC

### Christian D. Kutschinski, Director

Students with previous musical experience are encouraged to continue their musical activities in campus musical organizations for which they can qualify.

The 80-piece R. O. T. C. band and 50-piece Drum and Bugle Corps furnish martial music for all military parades by the R. O. T. C. Regiment.

The 80-piece Red-Coat Band plays and marches at all the football games, and at other campus and civic functions. Its membership comprises select R. O. T. C. and non-R. O. T. C. bandsmen, who receive training in the fundamentals of a marching band together with the R. O. T. C. Band, but devote some additional time in preparation for special programs.

The band is also subdivided into smaller units which alternate in furnishing music at pep meetings, basketball games, and other such occasions.

The Concert Band, composed of 60 of the most proficient musicians on the campus, concentrates on the study and performance of the finest in band-concert music. Its activities have greatly increased the cultural growth of those participating, and have done much toward increasing appreciation of music on the campus and in the community, in addition to providing whole-some entertainment.

The Drum and Bugle Corps, besides functioning as a separate unit, is also combined with the band on certain occasions, giving State College a marching musical unit of 130 men, clad in flashy new red-and-white uniforms, acquired in 1938 by contributions from students and faculty, and from interested citizens of Raleigh through the untiring efforts of The Junior Chamber of Commerce and the American Legion.

Credit.—Juniors and seniors in the band who are not enrolled in the advanced course R. O. T. C. may obtain three term credits per year for Band when approved by the Director before registration.

The Concert Orchestra is augmented by a number of the best musicians in Raleigh to round out the instrumentation to that of symphonic balance. Besides preparing concert programs, the orchestra is divided into smaller units to provide music of a lighter nature for numerous College functions.

The Men's Glee Club rehearses three times a week, and alternates with the orchestra and bands in giving concerts throughout the year. It has proved to be a very popular extracurricular activity, and the group is in demand for concerts out of town and at civic functions in addition to those on the campus.

A Male Quartet and small Chamber Music ensembles are encouraged.

### COLLEGE PUBLICATIONS

State College Record carries results of research and special studies by members of the Faculty and, in the April issue, the annual Catalog with announcements for the following year.

Agricultural Experiment Station publishes many bulletins of research conducted by the staff. These are sent on request free to anyone in the State.

Agricultural Extension Service issues circulars of practically useful information on various home and farm problems. A list of those available or any circular is sent on request free to citizens of the State.

The College publishes the results of experimental and research projects made by the Engineering Experiment Station and Engineering Departments of State College. Information concerning these publications may be obtained from the Director of the Station, Professor Harry Tucker.

### HEALTH OF STUDENTS

The authorities of the College strive to protect the health of students in every way. Each student is given a thorough physical examination when he enters the College. If remedial defects are discovered, such as defective tonsils or eyes, he is advised to have these defects corrected. If the defect is such that it may be corrected by exercise, the student is placed in a special class under the supervision of the Physical Education Director in the Physical Education Department of the College.

The Infirmary, maintained by the College, has accommodations for thirty-five bed patients. There is a staff of five: the College Physician, a Supervising Nurse, an Assistant Nurse, a Night Nurse—all graduates of Class-A Hospitals—and a Laboratory and X-Ray Technician.

A modernly equipped First-Aid Department, and a Laboratory and X-Ray Department are valuable features of the Infirmary.

The College Physician visits the Infirmary regularly once daily and more often when necessary. The Infirmary is never closed. A graduate nurse is on duty day and night. Students have free access to the Infirmary at all times.

Parents or guardians will be notified immediately by the Dean of Students in case of accident or serious illness of their sons, and no surgical operation will be performed, except in cases of extreme emergency, without full consent of parents.

Please note: "The hospital and medical fee provides for students' hospital service, general medical treatment, and the services of the nurses.

"It does not provide for surgical operations nor private nursing; neither does it include the services of dentists, or any other specialist."

### THE GENERAL ALUMNI ASSOCIATION

Alumni Organizations.—The purpose of this organization is to promote the interests of State College and to foster among its former students a sentiment of regard for one another, an attachment to their Alma Mater, and the ideals of service to their fellow men; to interest prospective college students in the kind of training given at State College and the advantages which young men who are graduates of schools of science and technology have in the fields of useful employment.

The annual business meeting of the General Alumni Association is held during the Commencement each year. Officers of the General Alumni Association, members of the Alumni Executive Committee, members of the Alumni Loyalty Fund Council, and alumni representatives on the Athletic Council are elected at the annual meeting.

Class reunions are held each year in connection with the annual meeting of the Association. These reunions are scheduled so that each class has a reunion the first year and subsequently, every five years after graduation.

State College Club.—Local Chapters of the General Alumni Association may be organized wherever there is sufficient interest to justify a chapter. At present, there are nineteen chapters in North Carolina and eleven chapters outside the State. These organizations are called State College Clubs.

The Alumni Office.—Records of both graduates and non-graduates are kept by the Alumni Office. The master file includes information on all former students; other files are arranged geographically and by classes. Biographical files are also kept on each graduate.

The Alumni Office serves as a medium of communication between alumni and the College. The office is located on the main floor of Holladay Hall and is official headquarters for alumni when they visit the Campus.

The Alumni News.—The ALUMNI NEWS is published monthly except July, August, and September by the General Alumni Association. The purpose of this publication is to keep alumni in touch with the College and with each other. The magazine is edited by the College News Bureau and the Alumni Office. Special items of news addressed to the Alumni Secretary about alumni or about State College are solicited.

### THE D. H. HILL LIBRARY

HARLAN CRAIG BROWN, Acting Librarian.

A.B., B.S. in L.S., University of Minnesota; A.M. in L.S., University of Michigan

CLYDE H. CANTRELL, Circulation Librarian.

A.B., A.M., A.B. in L.S., University of North Carolina

MRS. REBA DAVIS CLEVENGER, Reference Librarian. B.L.S., University of Illinois

MISS CHRISTINE COFFEY, Catalog Librarian.

A.B., University of North Carolina; A.B. in L.S., University of Michigan

CLOYD DAKE GULL, Periodicals Librarian.

A.B., Allegheny College; A.B., A.M. in L.S., University of Michigan

MISS ANNE LEACH TURNER, Order Librarian.

A.B., University of North Carolina; B.S. in L.S., Columbia University

MISS ANNA ELIZABETH VALENTINE, Assistant in Cataloging. B.S., N. C. State College; A.B. in L.S., University of North Carolina

Beginning.—The library dates from December, 1889, when \$500 was appropriated for the purchase of books as the nucleus of a library. From 1889 to 1903, the library was housed on the second floor of the Administration Building. Upon the completion of Pullen Hall, larger quarters on the first floor of that building were occupied. The library remained in Pullen Hall until 1926, when it was moved into its present building.

Technical, First.—Realizing that experience in the use of books is an essential part of the training of agriculturist, engineer, industrialist, and scientist, the College is striving to build strong, well-balanced collections in the degree-giving Departments, supported by adequate material in supplementary fields. To this end, the library is planned primarily to supply the study and research needs of the staff and students of the College. Its facilities, however, are available to all residents of the State for reference; and books on agricultural, scientific and technical subjects which are not available from the North Carolina Library Commission may be borrowed by any citizen of North Carolina, the borrower paying the transportation charges.

Inclusive.—The library collection includes all books and periodicals belonging to the College. The total number of cataloged volumes is approximately 55,000, exclusive of a large number of publications of the Federal Government, the State Agricultural Experiment Stations, the State Extension Division, the Engineering Experiment Station, and the agricultural departments of many foreign countries. Slightly more than 700 periodicals and newspapers are received currently.

Facilities.—The library contains two reading rooms with a minimum seating capacity of 164. The larger room is used for study. It contains a collection of encyclopedias, dictionaries, standard reference books in the different fields of study, and the current issues of periodicals and newspapers. The Reference Desk, where all general and technical reference questions are answered, is conveniently located here. The smaller room, with a seating capacity of about twenty, is used for general reading. It is comfortably furnished and has a collection of the best fiction and non-fiction of general interest. As the purpose of this room is to promote reading for pleasure, studying is not permitted in it.

Instruction.—Through use of the Freshman English classes, elementary instruction in the use of the library is given during the fall quarter to all new students. This instruction includes lectures, and problems in the use of the card catalog, magazine indexes, and reference books. The librarian also offers a three-hour elective course in the use of the library during the winter and spring quarters.

### YOUNG MEN'S CHRISTIAN ASSOCIATION

### Board of Directors

F. B. Wheeler, Chairman

E. L. Cloyd
David A. Worth
L. L. Vaughan
M. E. Gardner

H. E. Satterfield E. W. Boshart Thomas Nelson E. H. Hostetler

B. F. Brown

### **Employed Staff**

EDWARD S. KING, General Secretary N. B. WATTS, Self-Help Secretary MRS. L. W. BISHOP, Office Secretary

### Student Organizations

The Student Cabinet
The Freshman Cabinet

The objective of the Young Men's Christian Association is to contribute whatever is lacking in the total educational situation to make the principles and spirit of the Christian religion effective in personal life and all social relationships.

The Y. M. C. A. Building is the social and religious center of the campus. On the basement floor there is a recreation room, a guest room, a barber shop, and the Student Supply Store. There is a spacious lobby, an auditorium, a reception room, a dining room, the self-help office, and the service office on the first floor. The second floor provides space for the Faculty Club, Council of Student Government, a committee room, the Y. M. C. A. Cabinet Room, and the office of the General Secretary.

The student-employment service is directed by the Self-Help Secretary of the Association. Approximately five hundred and fifty students obtain part-time work through the Y. M. C. A.

Student and faculty organizations of all kinds use the facilities of the building for meetings and social gatherings, entertainments and lectures.

The Y. M. C. A. program, directed by the Student Cabinet, includes, with other features not mentioned, work for new students; organizing a Freshman Cabinet; planning socials with the students from nearby women's colleges; bringing to the campus eminent men to speak on such topics as menand-women relationships and present-day international, racial, and economic questions; conducting an annual religious-emphasis week under the leadership of Christian ministers or laymen who understand student life; sending delegates to state, regional, and national Christian Student Conferences; issuing annually State College Handbook, a compendium of extracurricular activities on the Campus, specially those of students, with personnel for each organization for the year.

### MILITARY TRAINING

### The Military Department: The Reserve Officers Training Corps

The Reserve Officers Training Corps, the official designation of the military organization at State College, conducts the work in two courses of two years each:

The Basic Course.—A required course for all physically fit freshmen and sophomores.

The Advanced Course—Elective and selective for juniors and seniors who have successfully completed the Basic Course. Satisfactory completion of the Advanced Course leads to a commission as Second Lieutenant of Infantry in the Officers Reserve Corps. Students holding such a commission are assigned, after graduation, to an Army Reserve Unit, usually in their own localities.

Military Science I discusses in class such subjects as: the National Defense Act, Military Courtesy and Discipline, Hygiene and First Aid, Military Organization, Current International Situation, and Military History. One hour per week is devoted to classroom instruction.

Military Science II discusses Leadership, Scouting and Patrolling, Combat Principles of small units, Interior Guard Duty, and Military History. One hour per week is devoted to classroom instruction.

Military Science III discusses Leadership, Aerial Photography, Supply and Mess Management, Care of Animals, Operation of Motor Vehicles, Defense against Chemical Agents, Combat Principles and Defensive Tactics. Three one-hour classroom periods are required.

Military Science IV discusses Leadership, Military Law, Military History, Anti-Aircraft Defense, Infantry Weapons and Unit Organization, Combat Intelligence and Signal Communications. Three one-hour classroom periods are required.

Drill.—All ROTC students are required to attend three one-hour drill periods per week.

### Uniforms, Equipment, Fees

Army Officers.—The Federal Government details officers of the Regular Army as Instructors in the ROTC. The senior instructor is designated by the War Department as Professor of Military Science and Tactics. The Regular Army officers conduct all classroom instruction and supervise the instruction of the corps on the drill fields.

Uniforms.—Uniforms for Basic Course students, and all instructional equipment are provided by the Federal Government. This is loaned to the Institution which is accountable to the Federal Government for its proper care and use.

Financial Aid.—Members of the Advanced Course are paid a specified amount by the Federal Government toward the purchase of their uniforms. These uniforms are made in the pattern of the Army Officer uniform and

can be used by the student for several years after he has received his commission in the Reserve Corps. In addition, the Advance Course student receives from the Federal Government a daily pay amounting to approximately twenty-five cents per day. An Advance Course student who withdraws from College prior to graduation must adjust his uniform account with the Military Department prior to departure from the campus.

Deposit.—A deposit of ten dollars is required of each student member of the ROTC, as insurance against loss of equipment or damage thereto. A refund is made upon the return of the equipment in good condition.

Expenses.—Approximately \$7.50 is required by each student in the ROTC for the purchase of uniform shoes and other special articles not issued by the Government.

Organization.—The ROTC at State College is organized into the following units:

An Infantry Regiment of three battalions, organized for training purposes.

A Military Band, supervised and trained by the Director of Music of the College. Instruments are provided by the Federal Government. Membership is open to all student musicians who can qualify. Time is given for instruction in concert music in addition to military-band music.

A Military Drum and Bugle Corps, supervised and trained by cadet officers. Instruments are provided by the Military Department.

Credits.—Credit is allowed for work at other institutions having an ROTC Unit established in accordance with the provisions of the National Defense Act and Army Regulations. Record of a student's prior training in ROTC is obtained by the Military Department from the institution concerned.

Educational Value.—The immediate purpose of the ROTC is to train officers for service in defense of the country in an emergency. This is clearly stated in the National Defense Act of Congress. The ROTC at State College is in no sense militaristic. As a by-product, the general educational value of the training for any profession in civil life is of incalculable greatness. Military discipline best instills the principle that to be a leader or to command one must first learn to obey. The training gives the advanced course student ample opportunity to practice the leadership of men resulting in self-confidence, initiative, and courage. Habits of regularity, of punctuality, of thoroughness in every duty, of respect for one's seniors are inculcated, along with neatness in dress and cleanliness in person. The importance of correct posture and bearing in social and business intercourse, as well as for health, is implanted.

The standard of discipline desired by the Military Department is exactly the same as the standard most helpful to fit college graduates to become honorable and outstanding members of their communities, in whatever profession or calling they may engage.

# III. SCHOOLS, DIVISIONS, AND DEPARTMENTS THE BASIC DIVISION

### BENJAMIN FRANKLIN BROWN, Dean

Organization.—Upon recommendation by President Graham, the Basic Division of the College was created by action of the Board of Trustees at its annual meeting on June 11, 1935. After considerable preliminary preparation, the organization of the Division became effective July 1, 1937, the first students being registered in the Division in September, 1938. For the first year it seemed advisable to include only the incoming freshmen. Beginning with the college year 1939-40 and thereafter, all freshmen and sophomores in the College will be registered in the Basic Division.

Administratively, the Basic Division includes the Departments of Economics, English, Ethics and Religion, History and Government, Modern Languages, Physical Education, and Sociology. The Heads of the Departments, or representatives from them, constituting the Administrative Board of the Division, together with the members of the several departments follow:

### **Economics**

Associate Professor C. B. Shulenberger, Administrative Board Representative

Professors B. F. Brown, R. O. Moen, M. C. Leager; Associate Professor R. W. Green; Instructors A. S. Miller, M. A. Strickland.

### English

Associate Professor Lodwick C. Hartley, Acting Chairman

Professors J. D. Clark, T. P. Harrison, A. I. Ladu; Associate Professors A. M. Fountain, E. H. Paget; Assistant Professors R. P. Marshall, T. L. Wilson, W. K. Wynn; Instructors K. W. Cameron, Philip H. Davis, H. T. Gibson, H. G. Kincheloe, Gerald Langford, F. H. Lyell, A. B. R. Shelley, R. B. Wynne.

### Ethics and Religion

Associate Professor W. N. Hicks, Head of Department

### History and Political Science

Associate Professor David A. Lockmiller, Acting Chairman Assistant Professors L. W. Barnhardt, George Bauerlein, Jr., L. Walter Seegers.

### Modern Languages

Professor L. E. Hinkle, Head of Department Assistant Professor S. T. Ballenger; Instructor I. O. Garodnick

### Physical Education and Athletics

Professor J. F. Miller, Head of Department

For names of Physical Education staff and athletic coaches see page 34.

### Sociology

Professor Sanford R. Winston, Head of Department

The faculty is composed of the staff members of the Departments named above and in addition, the teachers of freshmen and sophomores from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoölogy.

Purposes.—Broadly speaking, the purposes of the Basic Division are (a) to provide the best possible preliminary training during the first two years of the student's college career so that he can during the last two years successfully pursue his professional education in agriculture and forestry, engineering, textiles, or vocational education; and (b) to provide effective guidance during the first two years, so that those students with well-chosen and fixed purposes can be well-advised in their educational careers and also so that those students who have made an unsatisfactory choice of curriculum or who have become uncertain of their careers, may receive helpful guidance and advice in finding themselves.

More specifically it is the function of the Basic Division:

First, to provide "two years of basic courses in the humanities, natural and exact sciences, and the social sciences as the foundation of the schools of agriculture and forestry, textiles and engineering;" 1

Second, "to provide in the curricula of the upper years of each technological school for a minimum of the more general cultural courses in the humanities, natural sciences, and social sciences." 2

Student Guidance.—In carrying out its guidance program, the Basic Division avails itself of numerous tests which indicate the past achievements and the present rate of progress of its students. Upon entering, all freshmen take the placement tests in Mathematics and in English, and the psychological examination. In addition to these, the advisers have the use of mid-term reports on all students, the final examination record, the dormitory reports, and the record from the Dean of Students.

Each student is assigned to a technical adviser in the curriculum in which he is registered, to assist him in planning for his professional career. Students whose records come to indicate that they are not qualified for the curriculum they have chosen, or who become dissatisfied with their course, are assigned to guidance counselors for special assistance.

Special Testing Service is provided by the Department of Psychology in order to assist advisers and counselors in the guidance of students. In addition to the tests given to all freshmen already referred to, provisions are made for testing individual students who present special problems for

President Graham's Report to the Board of Trustees, June 11, 1935, page 11.

study. The "testing service" rendered by the staff in Psychology administers tests of aptitudes, personality, interests, and educational achievement. Efforts are being made to provide a clinical approach to a study of the educational, vocational, and personality problems of individual students.

### PROGRAMS OF STUDY

Programs of Study.—The Basic Division grants no degrees. It provides two years of fundamental training in preparation for the special training of the last two years in the other divisions of the college:

> The School of Agriculture and Forestry The Division of Teacher Training School of Engineering The Textile School

Its programs of study are as follows:

Freshman Year

1. In Agriculture and Forestry. (For complete curricula see pages 51-81.) (a) Leading to the degree of Bachelor of Science in Agriculture in one of

the following fields-Agricultural Economics, Animal Production, Dairy Manufacturing, Entomology, Field Crops and Plant Breeding, Floriculture, Plant Pathology, Pomology, Poultry Science, Soils, and Vegetable Gardening.

Sophomore Year

1

20

1 21 1

CREDITS CREDITS First Second Third First Second Third Courses TermTerm Term Courses Term Term Term Eng. 101, 102, 103 ..... 3 3 Agr. Eng. 202 ..... Chem. 101, 102, 103 ...... Soils, 201 ..... Zool. 101 ..... 0 Econ. 201, 202 ..... 3 Ó 0 Agr. Econ. 202 ..... 3 0 0 Phys. 115 ..... ō Hist. 101, 102, 103 ...... Math. 111, 112 ..... Zool. 202 or Bot. 221 ...... 3 0 5 Zool. 102
Bot. 101
Chem. 221
A. H. 202 n Mil. 101, 102, 103 or alt .... 0 0 Phys. Ed. 101, 102, 103 .... 1 1 1 17 21 21 Poul. 201 ..... For. 111 Hort. 203 F. C. 202 3 3 2

(b) Agricultural Chemistry,-leading to the degree of Bachelor of Science in Agriculture.

Mil. 201, 202, 203 or alt .... Phys. Ed. 201, 202, 203....

Freshman	Year			Sophomore	Ye	ar	
Eng. 101, 102, 103	3	3	3	Bot. 101	4	0	0
Chem. 101, 102, 103	4	4	4	Zool. 102	0	4	ŏ
Zool. 101	4	0	0	Zool. 202 or Bot. 221	ō	0	5
Bot. 102	0	4	0	Chem. 211, 212, 213		4	4
Geol. 120	0	0	4	Soils, 201	4	Õ	ń
Hist. 101, 102, 103		3	3	Bot. 402	ō	4	ŏ
Math. 111, 112		4	4	А. Н. 202	ŏ	ó	3
Mil. 101, 102, 103 or alt		2	2	Econ. 201, 202	3	3	ň
Phys. Ed. 101, 102, 103	1	1	1	Agr. Econ. 202	ŏ	õ	3
				Mil. 201, 202, 203 or alt	2	2	2
	20	20	20	Phys. Ed. 201, 202, 203	ī	ī	ī
					18	18	18

(c) Agricultural Engineering,—leading to the degree of Bachelor of Science in Agriculture.

Freshman	Year			Sophomore	Year		
Math. 101, 102, 103	3 4 3	6 3 4 3 2 1 19	6 3 4 3 2 1 1 19	Math. 201, 202, 303	3 0 4 3 0 0 3	4 0 3 4 0 3 0 3 2	4 3 0 4 0 0 4 3 2
				Phys. Ed. 201, 202, 203	1	1	1
Summer requirement:—C.	E. s20	).			20	20	21

(d) Forestry,-leading to the degree of Bachelor of Science in Forestry.

Freshman	Year			Sophomore	Ye	ar	
Eng. 101, 102, 103	3	3	3	Math. 113	0	0	4
C. E. 101, 102, 103		1	1	Econ. 205	3	0	0
Bot. 101, 102, 203		4	3	Agr. Econ 212	0	3	0
Math. 111, 112		4	4	Bot. 221	5	0	0
Zool, 101, 102, 213		4	4	Bot. 211, 213	3	0	3
For. 101, 102, 103		1	1	Chem. 101, 102, 103	4	4	4
Soc. 202		Õ	Ō	Geol. 120	0	4	4
Mil. 101, 102, 103 or Soc.				For. 202	0	3	0
101, 102, 103		2	2	C. E. 221, 222	0	3	3
Phys. Ed. 101, 102, 103		1	1	C. E. 225-224	0	1	1
2.1,21 , , , ,	-		_	Psych. 200	0	0	3
	19	20	19	Mil. 201, 202, 203, or Hist.			
				104	2	2	2
				Phys. Ed. 201, 202, 203	1	1	1
					_		_
Summer Camp, see p. 69.					18	21	21

(e) Landscape Architecture,—leading to the degree of Bachelor of Science in Agriculture.

Freshman	Year	•		Sophomore	Yea	ır	
Eng. 101, 102, 103	3	3	3	Eng. 211, 231	3	0	3
Math. 101, 102, 103		6	Ğ	Bot. 221		0	5
Bot. 101, 102, 203		Ă	ž	Hort. 301		0	0
M. E. 105, 106, 107		3	3 3	Geol. 120		4	0
L. A. 101, 102, 103		1	2	Econ. 205		3	0
C. E. 101, 102, 103		î	ī	Psych. 200		0	0
Mil. 101, 102, 103 or Soc.	1	-	-	Arch. 201, 202, 203		3	3
	9	9	2	C. E. 221-2		3	0
101, 102, 103	1	1	ī	C. E. 225-227		ō	Ö
Phys. Ed. 101, 102, 103	1			L. A. 201, 202, 203		2	2
	21	21	21	L. A. 212, 213	0	3	3
				Mil 201, 202, 203 or Hist.		2	2
				Phys. Ed. 201, 202, 203	1	1	1
					_	_	_
Surveying, C. E. s310, 3 cr.					21	21	20

(f) Wildlife Conservation and Management,—leading to the degree of Bachelor of Science in Agriculture.

Freshman	Year			Sophomore	Ye	ar	
Eng. 101, 102, 103	3	3	3	Phys. 115	0	0	5
Chem. 101, 102, 103		4	4	Bot. 101, 102, 203		4	3
Math. 111, 112		4	4	Chem. 221	0	0	4
Zool, 101, 102	4	4	0	Econ. 205	3	0	0
Geol. 120	0	0	4	Agr. Econ. 212	0	3	0
Hist. 101, 102, 103	3	3	3	Eng. 231	3	0	0
Zool, 111		0	0	Zool. 222, 223	0	4	4
Mil. 101, 102, 103 or alt		2	2	F. C. 202	0	3	0
Phys. Ed. 101, 102, 103		1	1	Zool. 251, 252, 253	2	2	2
		_		C. E. 221, 222	3	3	0
	17	21	21	C. E. 225	1	U	0
				For, 111	3	0	0
				Mil. 201, 202, 203 or alt	2	2	2
				Phys. Ed. 201, 202, 203	1	1	1
					22	22	21

- 2. In Teacher Training. (For complete curricula see pages 131-136.)
  - (a) Leading to the degree of Bachelor of Science in Agricultural Education.

Freshman	Yea	r		Sophomore	Yea	ar	
Eng. 101, 102, 103	3	3	3	Agr. Eng. 202	0	3	0
Chem. 101, 102, 103		4	4	Soils 201		Ō	4
Bot. 102	ō	4	ō	Econ. 201, 202		3	ō
Zool. 101	4	0	Ō	Agr. Econ. 202		Ö	3
Math. 111, 112	Ō	4	4	Phys. 115		Ō	Ō
Hist. 101, 102, 103	3	3	3	Zool, 202 or Bot, 221	ō	Ŏ	5
Geol. 120	Ō	Ō	4	Zool. 102	Ō	4	Ō
Mil. 101, 102, 103 or alt	2	2	2	Bot. 101	4	ō	0
Phys. Ed. 101, 102, 103		ī	ĩ	Chem. 221	ō	4	ŏ
2 m, o. 25d. 101, 102, 100				A. H. 202		ã	ŏ
	20	20	20	Poul. 201	3	ō	Õ
				For. 111	3	ŏ	ŏ
				Hort. 203	ō	ō	3
				F. C. 202	Õ	ŏ	3
				Mil. 201. 202. 203 or alt	2	ž	2
				Phys. Ed. 201, 202, 203	ī	ī	ī
					21	20	21

(b) Leading to the degree of Bachelor of Science in Industrial Arts Education,

also

(c) Leading to the degree of Bachelor of Science in Industrial Education.

Freshman	Year			Sophomore	Yea	r	
Eng. 101, 102, 103	3	3	3 -	Eng. 211, 222, 231	3	3	3
Math. 111, 112, 113	4	4	4	Phys. 105, 106, 107	4	4	4
Chem. 101, 102, 103 or				Hist. 101, 102, 103	3	3	3
optional science		4	4	Arch. 101, 102, 100	2	2	3
M. E. 105, 106, 107		3	3 ,	Soc. 202, 203	3	3	Ō
Ed. 106	3	3	3	M. E. 124, 125, 126	2	2	2
Mil. 101, 102, 103 or alt		2	2	Mil. 201, 202, 203 or Elect.	2	2	2
Phys. Ed. 101, 102, 103	1	1	1	Phys. Ed. 201, 202, 203	1	1	1
		_		Elective	0	0	3
	20	20	20				_
					20	20	21

(d) Leading to the degree of Bachelor of Science in Vocational Guidance.

Freshman	Year			Sophomore	Yea	Br	
Eng. 101, 102, 103	3	3	3	Eng. 211, 222, 231	3	3	3
Math. 111, 112, 113	4	4	4	Science	4	4	4
Science	4	4	4	Soc. 202, 203	3	3	0
Hist, 101, 102, 103		3	3	Psychol. 200	3	0	0
Ed. 103	0	0	3	Psychol. 290	0	3	0
Geol. 222	0	3	0	Psychol. 291	0	0	3
Geol. 120	4	0	0	Geol. 303	0	0	3
Mil. 101, 102, 103 or Hist.				Mil. 201, 202, 203 or Elect.	2	2	2
104	2	2	2	Phys. Ed. 201, 202, 203	1	1	1
Phys. Ed. 101, 102, 103	1	1	1	*Electives	3	3	3
	-		_				_
	21	20	20		19	19	19

3. In Engineering. (For complete curricula see pages 94-125.)

### Freshman Year (for all Engineering Curricula)

### Freshman Year

(for all Engineering	g cu	rricula)	
Eng. 101, 102, 103	3	3	3
Math. 101, 102, 103	6	6	6
Chem. 101, 102, 103	4	4	4
M. E. 105, 106, 107	3	3	3
Mil. 101, 102, 103 or Hist.			
104	2	2	2
Phys. Ed. 101, 102, 103	1	1	1
	_	_	_
	19	19	19

Summer-C. E. s200, 3 credits.

Bachelor of Architectural Engineering.

(a) Leading to the degree of (b) Leading to the degree of Bachlor of Ceramic Engineering.

Sophomore	Yea	Br		Sophomore	Year
Math. 201, 202, 303	4	4	4	Math. 201, 202, 303	4
*Eng. 211, 231, and one of				Chem. 211, 212	4
the following: Eng. 261,				Phys. 201, 202, 203	4
262, 263, 265, 266, 267	3	3	3	Geol. 220, 230	3
Phys. 201, 202, 203	4	4	4	*Eng. 211, 231, 261	3
E. M. 311, 312	0	3	3	Cer. Eng. 102, 103	0
Arch. 201, 202, 203	3	3	3	Mil. 201, 202, 203 or alt	2
Arch. 100	1	1	1	Phys. Ed. 201, 202, 203	1
Arch. 205	2	0	0		-
Arch. 206	1	0	0		21
Mil. 201, 202, 203 or alt	2	2	2		
Phys. Ed. 201, 202, 203	1	1	1		
			_		
	20	20	20		

- (c) Leading to the degree of Bach- (d) Leading to the degree of Bachelor of Chemical Engineering.
  - elor of Civil Engineering.

Sophomore	Yea	ır		Sophomore	Y ea	r	
Math. 201, 202, 303 *Eng. 211, 231 and any	4	4	4	Math. 201, 202, 303 *Eng. 211, 231 and one of	4	4	4
one of Eng. 261-267	3	3	3	Eng. 261-267	3	3	3
Chem. E. 201, 202, 203	1	1	2	Phys. 201, 202, 203	4	4	4
Phys. 201, 202, 203	4	4	4	C. E. 221, 222, 223	3	3	3
Chem. 211, 212, 213	4	4	4	C. E. 225, 226, 227	1	1	1
M. E. 122, 123	0	1	1	Geol. 220	3	0	0
Mil, 201, 202, 203 or alt,	2	2	2	E. M. 311, 312	0	3	3
Phys. Ed. 201, 202, 203	1	1	1	Mil. 201, 202, 203 or alt	2	2	2
	_		_	Phys. Ed. 201, 202, 203	1	1	1
	19	20	21		_		
					21	21	21

Electives to be selected with aid of adviser to meet special needs of individual students.

(e) Leading to the degree of Bachelor of Electrical Engineering.

(f) Leading to the degree of Bachelor of Geological Engineering.

Sophomore	Year		
Math. 201, 202, 303	4	4	4
Phys. 201, 202, 203 *Eng. 21I, 231 and one of	4	4	4
Eng. 261, 221 or 337	3	3	3
Econ. 201, 202, 203	3	3	3
E. E. 201, 202	3	3	Ō
M. E. 128	0	0	3
Mil. 201, 202, 203 or alt	2	2	2
Phys. Ed. 201, 202, 203	1	1	1
	_	_	_
	20	20	20

Sophomore	Year	•	
Math. 201, 202, 303	4	4	4
*Eng. 211, 231 and one of	_		
Eng. 261-267	3	3	3
Chem. 211, 212	4	4	ō
Phys. 201, 202, 203	4	4	4
Geol. 220, 222, 230	3	3	3
Geol. 223	ō	ŏ	3
Mil. 201, 202, 203 or alt	2	2	2
Phys. Ed. 201, 202, 203	ī	-	
- 130. 24. 201, 202, 203	1	1	1
		-	_
	21	21	20

(g) Leading to the degree of Bachelor of Industrial Engineering.

(h) Leading to the degree of Bachelor of Mechanical Engineering.

Sophomore	Year		
Math. 201, 202, 303	4	4	4
*Eng. 211, 231, and one of			
Eng. 261- 267	3	3	3
Phys. 201, 202, 203	4	4	4
Econ. 201, 202, 203	3	3	3
M. E. 124, 125, 126	2	2	2
I. E. 101, 102, 103	3	3	3
Mil. 201, 202, 203 or alt	2	2	2
Phys. Ed. 201, 202, 203	1	ī	ī
		_	_
	22	22	22

Sophomore	Year		
Math. 201, 202, 303	4	4	4
Eng. 211, 231	3	3	ō
Phys. 201, 202, 203	4	4	4
M. E. 211, 212, 213 M. E. 221, 222, 223	2	2	2
M. E. 124, 125, 126	2	2	2
E. M. 311	õ	õ	2
Mil. 201, 202, 203 or alt	2	2	2
Phys. Ed. 201, 202, 203	1	ī	ī
	_	_	_
	20	20	20

(i) Leading to the degree of Bachelor of Science in Engineering.

Sophomore	Year		
Math. 201, 202, 303	4	4	4
Phys. 201, 202, 203* *English or Modern Lan-	5	5	5
guage	3	3	3
†Elective Mil. 201, 202, 203 or alt	2	4 2	4 2
Phys. Ed. 201, 202, 203	1	ī	ĩ
	19	19	19

<sup>\*</sup> Students who do not make an average grade of B or better in Freshman English will be required to continue English in the Sophomore year.

† Free electives,—except that not more than 15 term credits may be chosen from the technical or special technical courses in the School of Engineering.

- 4. In Textiles. (For complete curricula see pages 142-144.)
  - (a) Leading to the degree of Bachelor of Science in Textiles in one of the following: Textile Manufacturing, Textile Chemistry and Dyeing, Textile Management, Weaving and Designing, and Yarn Manufacturing.

Freshman	Year			Sophomore	Ye	ar	
Eng. 101, 102, 103	3	3	3	Hist. 101, 102, 103	3	3	3
Phys. 111, 112, 113	4	4	4	Arch. 106 or Phys. 311		0	Ó
Math. 111, 112, 113	4	4	4	Phys. 311 or Arch. 106	0	0	3
M. E. 121, 122, 123	1	1	1	Chem. 101, 102, 103	4	4	4
M. E. 101, 102, 103	2	2	2	F. C. 201, 212	3	3	0
Tex. 101, 102, 103	2	2	2	Tex. 201, 203, 205	1	0	4
Mil. 101, 102, 103 or Hist.				Tex, 231, 232, 234	1	3	0
104	2	2	2	Tex. 236, 237	0	2	2
Phys. Ed. 101, 102, 103	1	1	1	Tex. 207, 208, 209, 211	3	1	1
				Mil. 201, 202, 203 or alt	2	2	2
	19	19	19	Phys. Ed. 201, 202, 203	1	1	1
					_	_	_
					21	19	20

### THE SCHOOL OF AGRICULTURE AND FORESTRY

IRA OBED SCHAUB, Dean and Director of Extension ZENO PAYNE METCALF, Director of Instruction

Organization.—North Carolina is one of the foremost States in the Union in the value of farm crops. The scientific investigations, demonstrations, and instruction of State College, in coöperation with the State Department of Agriculture, have been particularly effective in promoting better methods of farming, and in adopting scientific agriculture. The majority of the people of the State employed in gainful occupations are devoting their energies to some form of agriculture, and the greater part of their wealth and prosperity is derived from this great vocation.

The art of cultivating the soil properly and living well at home, the value of selecting that form of agriculture which is in greatest demand, and the best method of turning the surplus products into commercial channels that will be most profitable to the producer, are matters of the greatest concern to the people of the State. The School of Agriculture has been reorganized for the purpose of rendering a much larger service to the State along these and other lines. The Experiment Station and the Extension Service have been more closely united with College instruction, and the courses of study have been so organized and the instruction so broadened as to offer much larger opportunities to young men entering the College, and to farmers and other agricultural workers throughout the State.

Growth.—Beginning a generation ago on a very small scale, the School of Agriculture and Forestry has grown until today it embraces the following important divisions: (a) Agricultural Economics, including Farm Marketing, Farm Management, and Rural Sociology; (b) Agronomy, including Field Crops, Soils, Plant Breeding, and Agricultural Engineering; (c) Animal Industry, including Animal Production, Animal Nutrition, Dairy Production, and Dairy Manufacturing; (d) Botany, including Bacteriology, Plant Physiology, and Plant Diseases; (e) Chemistry; (f) Horticulture, including Pomology, Small-Fruit Culture, Floriculture, Truck Farming, and Landscape Architecture; (g) Forestry; (h) Poultry Science, including Poultry Diseases, Poultry Breeding, Poultry Feeding, and Poultry Management; (i) Zoölogy, including Genetics, Entomology, Animal Physiology, and Wild Life Management.

Purpose.—The purpose of the School of Agriculture and Forestry is threefold: (1) To secure through scientific research, experimentation, and demonstration accurate and reliable information relating to soils, plants, and animals, and to secure from every available source reliable statistical, technical, and scientific data relating to every phase of agriculture that might be of advantage to the State; (2) to provide instruction in the College for young men who desire to enter the field of genral agriculture, or wish to become professionals in agricultural education or specialists in any field of science related to agriculture; (3) to disseminate reliable information

through publications and through extension agents, and by a wise use of this information to give instruction to agricultural workers in the scientific, experimental, and practical progress in the various lines of agriculture.

All effective instruction in agriculture is based on research and investigation; and the curricula are so organized that not only the subject matter for classroom instruction and extension work may be drawn from research, experimentation, and demonstration, but that the students themselves shall have the opportunity to work under the direction of research specialists.

The vocations open to young men well trained in agriculture and the opportunities afforded for distinct service to the State are now greater than ever before. In order that the more important vocations in agriculture may be presented to the youth of the State, the courses of study are so organized as to give specific training for the following major vocations:

General Farming
Agricultural Extension Agents
Agricultural Specialists
in State or Federal Departments
Stock Raising and Dairying
Poultrymen

Specialists in the Manufacture of Dairy Products Foresters Fruit Growers Truck Farming

Agricultural Specialists in Foreign Lands

In addition to these major vocations, the School of Agriculture gives instruction in Beekeeping, Floriculture, and the basic instruction for teachers of Agriculture.

Admission: Advanced Standing.—Regulations for admission and for advanced standing are stated under Information for Applicants.

Graduates in Liberal Arts.—Selected courses leading to the degree Bachelor of Science in Agriculture are offered to graduates of universities and standard colleges. These are arranged in accordance with the vocational aim of the individual student, and in the light of credits presented from the institution from which the student has been graduated, subject to the approval of his adviser and the Director of Instruction. In cases where the student presents enough credits which may be used for courses required in his curriculum he may be graduated with a B.S. degree in one year. In no case should it take more than two years to complete the work for this degree.

Graduation.—The requirement for graduation is the satisfactory completion of one of the curricula outlined below.

A minimum of 230 term credits with at least 230 honor points is required for graduation from the School of Agriculture. The term credits should be distributed as follows: A maximum of 60 in the major Department, and a minimum of 18 in Language, 24 in Physical Science, 18 in Social Science, 12 in Military Science or alternative, and 6 in Physical Education.

Students entering with advanced standing are required, in the remainder of their course, to earn at least as many points as the number of term credits remaining necessary for graduation.

Degrees.—The degrees of Bachelor of Science in Agriculture and Bachelor of Science in Forestry are conferred upon the satisfactory completion of one of the curricula in this School.

The degree of Master of Science in Agriculture is offered for the satisfactory completion of one year of graduate study in residence. Candidates for this degree are enrolled as students in the Graduate School.

The professional degree of Master of Agriculture may be conferred upon graduates of State College after five years of service in Agriculture, and upon the acceptance of a satisfactory thesis.

Curricula.—The curricula in Agriculture offer a combination of practical and theoretical work. About half of the time is devoted to lectures and recitations, the other half to work in shops, laboratories, greenhouses, dairy, poultry yards, and on the College farm.

In order that every graduate of the School of Agriculture shall acquire a liberal education in lieu of specializing too narrowly, and shall become a leader having breadth of vision, the curricula in Agriculture contain broadening subjects such as language, literature, history, and the social sciences.

The School of Agriculture and Forestry offers the following curricula:

- A. In General Agriculture with opportunities to specialize during junior and senior years in any of the following:
- 1. Farm Business Administration
- 2. Farm Marketing and Farm Finance
- 3. Rural Sociology
- 4. Animal Production
- 5. Dairy Manufacturing
- 6. Entomology
- 7. Field Crops and Plant Breeding
  - B. In Agricultural Engineering
  - C. In Forestry
  - D. In Landscape Architecture
  - E. In Wildlife Management

- 8. Floriculture
- 9. Plant Pathology
- 10. Pomology
- 11. Poultry Science
- 12. Soils
- 13. Vegetable Gardening
- 14. Agricultural Chemistry

### GENERAL AGRICULTURE

First Two Years.—The freshman and sophomore years for all courses are outlined on a following page. This curriculum is intended to train students in broad basic fields of agriculture. For junior and senior years the curriculum of each student is to be arranged in accordance with his vocational aims subject to the approval of his adviser and the Director of Instruction.

Professional Opportunities.—Students who specialize in General Agriculture may look forward to any of the following professions.

Specialists in State or Federal Departments, or in Agricultural Colleges.— The School of Agriculture is equipped to train men as specialists in the various fields as indicated by the curricula outlined below.

Inspectors.—Most States now maintain inspection of fertilizers, seeds, nurseries, and insecticides. Most cities have special inspectors for their milk supplies. Students seeking vocational opportunities in these fields may elect appropriate subjects in their junior and senior years.

Extension Specialists.—Students in this group will find employment as agricultural agents for railroads, and for commercial firms dealing in agricultural products; as specialists in the various fields of agriculture in the extension departments of agricultural colleges, and as county agricultural agents.

County Agents.—The growing importance of marketing agricultural products and the need for better organization of farms has given rise to a strong demand for county agents who have had special training in Agricultural Economics.

Specialists and Commercial Agricultural Agents.—The School of Agriculture is well equipped to train men for agricultural industries, such as manufacturing fertilizers, livestock and poultry feeds, farm machinery, and dairy and horticultural products. These concerns are usually anxious to obtain men who have had actual agricultural experience, and who, in addition, have had special training in agricultural economics, accounting, and statistics. This field is developing rapidly and offers a fine opportunity for students who wish to enter the purely commercial field.

Agricultural Specialists in Foreign Lands.—The School of Agriculture is well equipped to train men as experts in cotton and tobacco production in foreign lands.

Junior Agricultural Economist.—A position as a Junior Agricultural Economist involves research in Agricultural Economics. Such positions are usually available in the governmental departments such as United States Department of Agriculture and in various State institutions.

Farm Manager.—There is a growing demand for men who have had practical farm experience and who have special training in farm organization and management. This field is practically a new one, and there have been many requests for men with special training in farm management.

Marketing Specialists.—There is a growing demand for men who can manage coöperative marketing and other farmers' business associations.

### FOR ALL CURRICULA IN GENERAL AGRICULTURE

### Freshman Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
General Botany, Bot. 102	0	4	0
General Zoology, Zool. 101		0	0
Physical Geology, Geol. 120	0	0	4
Economic History, Hist. 101, 102, 103	3	3	3
Mathematical Analysis, Math. 111-112		4	4
Military Science I, Mil. 101-2-3, or alternate		2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	3 1	1	1
	17	21	21
Sophomore Yes	ar		
Farm Equipment, Agr. Eng. 202	0	3	0
Soils, Soils 201	0	ŏ	4
Soils, Soils 201 General Economics, Econ. 201, 202	3	8	Ō
Agricultural Economics, Agr. Econ. 202	0	0	3
Physics for Agricultural Students, Phys. 115	5	0	0
Animal Physiology, Zool. 202, or			
Plant Physiology, Bot. 221		0	5
Economic Zoology, Zool. 102		4	0
General Botany, Bot. 101		0	0
Introduction to Organic Chemistry, Chem. 221		4	0
Animal Nutrition I, A. H. 202		3	0
General Poultry, Poul. 201		0	0
Principles of Forestry, For. 111		0	0
General Horticulture, Hort. 203		0	3
General Field Crops, F.C. 202		0 2	$\frac{3}{2}$
Military Science II, Mil. 201-2-3, or alternate		2	2
Sport Activities, F.E. 201, 202, 203	1	1	1
	21	20	21

### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Professor G. W. Forster, Head of the Department

Professor Marc C. Leager; Associate Professors S. L. Clement, Glenn R. Smith; Assistant Professor R. E. L. Greene.

Facilities.—The Department of Agricultural Economics and Rural Sociology has available for its use 15 offices, a seminar room, a document room, a workshop, and a Departmental classroom. The Department is supplied with calculating devices of all kinds. In addition, by special arrangement of one of the large calculating-machine companies a supply of calculators and tabulating devices is adjusted to the need for them. Charts on practically every phase of agricultural economics are at hand or are available through the courtesy of the U. S. Department of Agriculture. A large number of maps of farms located in various parts of the state are used as a basis for studying and for illustrating the principles and practices of farm management. The results of research in marketing, agricultural finance, taxation, insurance, and soil conservation practices have made available a large volume of statistical information which is constantly available for undergraduate and graduate students. Maintained for reference is an up-to-date

file of bulletins and documents covering all phases of agricultural economics and rural sociology.

The State a laboratory.—The State of North Carolina is a laboratory for the Department. Studies are in progress on all phases of Agricultural Economics and Rural Sociology: marketing of cotton, tobacco, fruits and vegetables; farm credit, taxation of agriculture, farm prices, farm organization and management, land classification and land use, rural standards of living, rural housing, rural organization, rural community life. It is significant to the student in Agricultural Economics and Rural Sociology that much of the research is done in cooperation with the various agencies of the Federal Government.

## CURRICULA IN AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

### Farm Business Administration

For Freshman and Sophomore years refer to page 55.

### Junior Year

	First Te	erm	CREDITS Second Term	Third Term
English			3	3
Farm Management I, Agr. Econ. 303			0	3
Principles of Accounting, Econ. 301, 302, 303	3		3	-3
Survey of Statistical Methods, Econ. 408	3		0	0
Statistical Theory, Econ. 409	0		3	0
Woodworking, M.E. 127			3	0
Technical Agricultural Courses	3		3	3
Electives	6		3	6
	_		_	_
	18		18	13
Senior Year				
Statistical Analysis of Agricultural Data, Agr. Econ.				
461, 462, 463	2		2	2
Agricultural Finance, Agr. Econ. 432			3	0
Farm Management II, Agr. Econ. 423	0		0	3
Farm Buildings, Agr. Eng. 322			3	0
Farm Cost Accounting, Agr. Econ. 402, 403	0		3	3
Business Law, Econ. 307	3		0	0
Agr. Marketing, Agr. Econ. 411	3		0	0
Soils of North Carolina, Soils 312	0		3	0
Drawing, C.E. 101, 102, 103	1		1	1
Terracing and Drainage, Agr. Eng. 303			0	3
Technical Agricultural Courses			3	3
Electives	6		3	3
	18		21	18

### Farm Marketing and Farm Finance

For Freshman and Sophomore years refer to page 55.

### Junior Year

			CAEDIIS	
	irst Te	erm	Second Term	Third Term
English	3		3	3
Marketing Methods, Econ. 311, 312	3		3	0
Rural Sociology, Rur. Soc. 302	0		3	0
Agr. Marketing, Agr. Econ. 411	3		0	0
Survey of Statistical Methods, Econ. 408	3		0	0
Statistical Theory, Econ. 409	0		3	0
Principles of Accounting, Econ. 301, 302, 303	3		3	3
Electives	3		3	12
	-		_	
	1.8		18	1.9

### Senior Year

Courses	First Term	CREDITS Second Term	Third Term
Statistical Analysis of Agricultural Economic Data, Agr. Econ. 461, 462, 463	2	2	2
Marketing Methods and Problems, Agr. Econ. 421	3	Ō	0
Cotton and Tobacco Marketing, Agr. Econ. 442	0	3	0
Agricultural Finance, Agr. Econ. 432		3	0
Agricultural Cooperation, Agr. Econ. 422	0	3	0
Farm Cost Accounting, Agr. Econ. 402, 403	0	3	3
Farm Management I, Agr Econ. 303	0	0	3
Community Organization, Rur. Soc. 413		0	3
Money, Credit, and Banking, Econ. 321, 322	. 3	3	0
Business Finance, Econ. 323	0	0	3
Business Law, Econ. 307	3	0	0
Technical Agriculture	3	3	3
Electives	3	0	0
		_	-
	17	20	17

### Rural Sociology

For Freshman and Sophomore years refer to page 55.

### Junior Year

English	3	3	3
General Sociology, Soc. 202, 203	3	3	0
Rural Sociology, Rur. Soc. 302	0	0	3
History of Agriculture, Hist. 318	0	0	3
Survey of Statistical Methods, Econ. 408	3	0	0
Statistical Theory, Econ. 409	0	3	0
American Political Parties, Gov. 203, or			
American National Government, Gov. 200	3	0	0
State Government and Administration, Gov. 201	θ	3	0
Municipal Government and Administration, Gov. 202	0	0	3
Principles of Accounting, Econ. 301, 302, 303	3	3	3
Electives	3	3	3
	18	18	18

### Senior Year

Statistical Adalysis of Agricultural Leonomic Data.			
Agr. Econ. 461, 462, 463	2	2	2
Social Psychology, Psychol. 290	ō	3	ō
Social Pathology, Soc. 401	0	0	3
Farmers Movements, Rur. Soc. 403	0	Ö	3
The Family Organization, Soc. 406	3	0	0
Community Organization, Rur. Soc. 413	0	0	3
Population Problems, Soc. 411	0	3	0
Farm Management I, Agr. Econ. 303	0	0	3
Agr. Marketing, Agr. Econ. 411	3	0	0
Agricultural Cooperation, Agr. Econ. 422	0	3	0
Technical Agriculture	6	6	0
Electives	3	3	3
			_
	17	20	1.7

### AGRONOMY

Professor C. B. Williams, Head of the Department

The teaching work of this Department is grouped into three Divisions, viz: (1) Agricultural Engineering, see pages 58-60; (2) Field Crops and Plant Breeding, see pages 65-66; and (3) Soils, see pages 77-78.

Its broad objective is to carefully train earnest young men in agricultural engineering and in procedures that will qualify them for beginner positions in which a well-rounded or specialized knowledge of field crops, plant breeding, soils, fertilizers, soil fertility and closely related subjects is required.

### AGRICULTURAL ENGINEERING

Professor: D. S. Weaver, Head of the Division.

Assistant Professor: G. W. Giles.

Purpose.—This curriculum has been arranged to give its graduates sound and fundamental training in engineering, basic training in the agricultural sciences, and a specialized study in courses involving the application of engineering knowledge to agricultural problems.

Breadth of Training.—Because of the great variety of work required of agricultural engineers, a number of subjects peculiar to other curricula are included, so that the student receives a considerable breadth of training. Engineering principles applied to agriculture have played an important part in the advancement and development of agricultural practices. Agricultural engineering as a profession, however, is of comparatively recent development, but it is rapidly becoming recognized as one of the more important of the engineering professions, since it is identified with the most important of industries—agriculture. This course is especially suited to the boy brought up on the farm, as it prepares him for a professional business, or farming career, and enables him to capitalize on his farm training.

Divisions.—Subdivided on the basis of engineering technique, Agricultural Engineering embraces three general fields: (1) Power and Machinery, including Rural Electrification; (2) Farm Structures, including Sanitation, Materials of Construction and Equipment; (3) Land Reclamation, which includes Irrigation, Drainage, Soil-Erosion Control, and other forms of mechanical improvement of agricultural lands.

Occupations Open to Graduates.—Teaching, experiment station and extension-service positions with colleges and the Government; engineers in land reclamation, drainage, or irrigation enterprises; designing, advertising, sales and production work with manufacturers of farm machinery, equipment, and building materials; rural electrification work; editorial work with publishers; appraisal, and agricultural-engineering consultant service.

Equipment.—The offices, classrooms, and shops used in Agricultural Engineering are in Patterson Hall and the Shops Building. The laboratories are equipped with the latest labor-saving farm equipment for seedbed preparation, planting, cultivating, harvesting, and crop preparation. These machines are furnished by the leading farm-machinery manufacturers, and are replaced from time to time as improvements are developed. Special effort is made to have on hand all types of equipment for use in the best practices in the production of farm crops.

Farm Conveniences, such as water systems for the home and the farm, individual electric-light plants, gas engines, tractors, septic tanks, are well represented.

The Farm Buildings Laboratory is equipped with drawing tables, supply cabinets, and models of various types of farm buildings construction.

Laboratory Equipment for Soil Conservation, such as that for terracing and gully control, consists of sets of surveying and leveling instruments.

Practice.—Field areas in crops, vineyards, orchards, and pastures are available for practice in the use of farm equipment, and in drainage and erosion control.

A Bulletin Library of Agricultural Engineering is maintained for student reference.

### CURRICULUM IN AGRICULTURAL ENGINEERING

#### Freshman Year

CREDITS

		CREDITS	
Courses	First Term	Second Term	Third Term
Algebra, Trigonometry, and			
Analytical Geometry, Math. 101, 102, 103	6	6	6
Composition, Eng. 101, 102, 103	3	ğ	3
Composition, Eng. 101, 102, 103		,	Ä
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Engineering Drawing II, M.E. 105, 106	3	3	0
Descriptive Geometry, M.E. 107	0 2	0 2	3 2 1
Military Science I, Mil. 101-2-3, or alternate		2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103.	1	1	1
	_	-	<del></del>
	19	19	19
Summer requirement:—Surveying, C.E. s200.			
0			
Sophomore Yea	ır		
F		•	
Engineering Geology, Geol. 220	3	Ų	Ų
Calculus I, II, III, Math. 201, 202, 303		4	4
Business English, *Public Speaking, Eng. 211, 231		0	3
Physics for Engineers, Phys. 201, 202, 203	4	4 .	4
Farm Equipment, Agr. Eng. 202	0	3	0
Farm Engines, Agr. Eng. 212		3	0
Soils, Soils 201		Ō	
Economic History, Hist, 101, 102, 103	··· š	3	ā
Military Science II, Mil. 201-2-3, or alternate	3	ž	š
Sport Activities, P.E. 201, 202, 203		í	4 3 2 1
Sport Activities, F.E. 201, 202, 200	1		1
	20	20	21
	20	20	21

### Junior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Farm Buildings, Agr. Eng. 322	0	3	0
General Zoology, Zool. 101		0	0
General Botany, Bot. 102		4	0
General Economics, Econ. 201, 202	3	3	0
Agricultural Economics, Agr. Econ. 202		0	3
Terracing and Drainage, Agr. Eng. 303	0	0	5 5 5
Farm Conveniences, Agr. Eng. 233		0	3
Teaching of Farm Shop Work, Agr. Eng. 331, 332	3	3	0
Animal Nutrition I, A.H. 202		3	0
Engineering Mechanics, E.M. 301, 302	3	3	0
Strength of Materials, E.M. 220	0	0	3
General Field Crops, F.C. 202	0	0	3 3
General Horticulture, Hort. 203	0	0	3
Electives	6	0	3
	19	19	21
Senior Year			
Dairy Machinery, A.H. 362	0	1	0
Farm Management I, Agr. Econ. 303	0	0	3
Technical Writing I, Eng. 321		0	0
Dairy Cattle and Milk Production, A.H. 321	3	0	0
Rural Sociology, Rur. Soc. 302	0	S	0
Rural Sanitation, Bot. 202	0	3	0
Farm Machinery and Tractors, Agr. Eng. 313	0	0	3
Problems in Agr. Eng., Agr. Eng. 481	3	0	0
Erosion Prevention, Agr. Eng. 403	0	0	3
Farm Structures, Agr. Eng. 423	0	0	3
Rural Electrification, Agr. Eng. 432	0	3	0
Soil Fertility, Soils 221		0	0
Soil Conservation and Land Use, Soils 423		0	3
Senior Seminar, Agr. Eng. 491, 492, 493		1	1
Electives	6	6	3
	19	17	19

<sup>\*</sup> Either Principles of Journalism, Eng. 150, or some term of a course in American or English Literature may be elected in place of Public Speaking.

### ANIMAL HUSBANDRY AND DAIRYING

Professor R. H. Ruffner, Head of the Department

Professors: E. H. Hostetler, W. L. Clevenger, F. M. Haig; Associate Professors C. D. Grinnells, J. E. Foster; Instructor C. D. Swaffar.

The Department of Animal Husbandry and Dairying is housed in Polk Hall, a three story building which was designed to meet the needs of college instruction, research, and extension work in Animal Husbandry and Dairying.

In the basement of Polk Hall are two wings, one of which is devoted to Dairy Manufacturing and the other to Farm Meats. The Dairy wing has recently been equipped with new dairy machinery, including direct-expansion ice cream freezer, churn, pasteurizer, milk bottler, and milk-cooling and storage equipment. This equipment is used daily by students who bottle milk, and manufacture ice cream and other dairy products used in the College Cafeteria. The other wing is used for slaughtering beef cattle, sheep and swine, and for the aging and curing of the meats produced from these

animals. Sufficient equipment is provided in the Meat Laboratory to do the necessary work in the time allotted yet the courses are so adapted that the students can apply both theory and practice to conditions on the farm. Both the dairy and the meat wings have their own individual mechanical refrigeration units so that the courses can be taught at any season of the year.

The upper floors of the building contain offices, classrooms, library, milk-testing laboratory, farm-dairy laboratory, animal-nutrition laboratories, and beef cattle, sheep, and swine research laboratories. Extension specialists in swine, dairy, beef and sheep have offices in this building.

In addition the Department of Animal Husbandry and Dairying maintains two livestock farms located a few miles from the College.

The Dairy Farm, recently acquired, contains 400 acres. Two large fire-proof, completely equipped dairy barns house 100 registered Jerseys, Guernseys and Holsteins. A herd of registered Ayrshires is maintained at the College Experiment Station near by. A milk house, designed for convenience in handling milk in the most efficient and sanitary manner, connects the two barns. Other buildings located on the dairy farm are horse and calf barns.

The Animal Husbandry farm adjoins the Dairy farm and consists of 500 acres. Here registered breeds of swine, sheep and beef cattle are maintained for research work and college teaching.

The Department of Animal Husbandry and Dairying is equipped to instruct students in the feeding, breeding and management of farm animals. Students feed and milk cows; conduct research; manufacure dairy products; feed and prepare animals for exhibition and the block, actually doing the slaughtering, and the cutting of the meat for market and home use.

Well-trained young men in the various fields of Animal Husbandry and Dairying have greater opportunities for service and success than ever before. This fact is demonstrated by the following responsible positions held by graduates in Animal Husbandry and Dairying:—

- 1. Livestock and dairy farmers
- 2. County Agents and Extension Specialists in livestock
- 3. Livestock research investigators
- 4. Superintendents and owners of dairy manufacturing plants
- 5. Teachers in agricultural colleges
- 6. Managers and salesmen in commercial livestock and feed companies
- 7. Milk Inspectors
- 8. Livestock breed association work
- 9. Advisory work for banks and corporations in livestock industries
- 10. Supervisors of Dairy Herd Improvement Associations.

### CURRICULUM IN ANIMAL PRODUCTION

For Freshman and Sophomore years refer to page 55.

### Junior Year

		CREDITS	
	First Term	Second Term	Third Term
Dairying, A.H. 341	0	3	0
Swine Production, A.H. 331	3	0	Ö
Farm Meats I, A.H. 301	0	3	Ô
Animal Nutrition II, A.H. 361	3	Ö	0
History of Breeds, A.H. 322-323	0	3	3
Herd Improvement, A.H. 413	0	Ö	3
Business English, Eng. 211		Ŏ	3
Public Speaking, Eng. 231		3	ő
Southern Writers, Eng. 275	3	0	Õ
Genetics, Zool. 411	4	Õ	ŏ
Pastures and Forage Crops. F.C. 443	0	ŏ	Ă
Chemistry of Vitamins, Chem. 462	0	3	ō
Farm Engines, Agr. Eng. 212	0	3	ŏ
Market Grading of Field Crops, F.C. 451	3	Õ	ŏ
Animal Hygiene and Sanitation, A.H. 353		ő	3
Electives		ŏ	3
		_	_
	19	18	19
Senior Year			
Animal Breeding, A.H. 421	4	0	0
Sheep Production, A.H. 313	0	Õ	3
Beef Cattle, A.H. 372	0	3	ő
Pure Bred Livestock Production, A.H. 432	0	3	Õ
Stock Farm Management, A.H. 433	0	Õ	3
Horse and Mule Production, A.H. 351	3	ō	Õ
or Dairy Cattle and Milk Production, A.H. 321			•
Senior Seminar, A.H. 391-392-393	1	1	1
Incubation and Brooding, Poul. 303	Đ	0	3
Terracing and Drainage, Agr. Eng. 303	0	0	3
General Bacteriology, Bot. 402	0	4	Ō
Fruit Growing, Hort. 331	4	0	0
Agricultural Marketing, Agr. Econ. 411	3	0	0
Testing of Milk Products, A.H. 332	0	4	Ö
Business Law, Econ. 307	0	0	3
Electives	3	3	3
	18	18	19

### CURRICULUM IN DAIRY MANUFACTURING

For Freshman and Sophomore years refer to page 55.

### Junior Year

		CREDITS	
COURSES	rst Term	Second Term	Third Term
Creamery Buttermaking, A.H. 371	4	0	0
lesting of Milk Products, A.H. 332	0	4	0
ice Cream Making, A.H. 381		ō	o o
Cheese Making, A.H. 333	0	Ô	3
Dairy Manufacturing Practice A H 2/9	•	3	Õ
City mik Supply, A.H. 343	0	ŏ	4
business English, Eng. 211	0	ō	3
Fublic Speaking, Eng. 231	0	3	ě
Southern Writers, Eng. 275	2	Õ	Ô
Unemistry of Vitamins, Chem. 462	0	Ŏ	3
Animal Breeding, A.H. 421	4	õ	ň
Food and Nutrition, Chem. 482	0	3	ň
Animal Hygiene and Sanitation, A.H. 353	0	ŏ	3
rarm Engines, Agr. Eng. 212	. 0	3	ñ
Electives	3	3	3
	_	_	_
	18	19	19

### Senior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Dairy Machinery, A.H. 362	0	1	0
Dairy Products Judging, A.H. 394	0	ō	i
Dairy Manufactures, A.H. 401-402-403	3	3	3
Senior Seminar, A.H. 391-392-393	1	1	1
General Bacteriology, Bot. 402	0	4	0
Swine Production, A.H. 331	3	0	0
Animal Nutrition II, A.H. 361	3	0	0
Farm Meats I, A.H. 301	0	3	0
Business Law, Econ. 307	0	0	3
Herd Improvement, A.H. 413	0	0	3
Food Products and Adulterants, Chem. 441		0	0
Stock Farm Management, A.H. 433		0	3
Agricultural Marketing, Agr. Econ. 411		0	0
Farm Accounting, Agr. Econ. 313		6	3
Pure Bred Livestock Production, A.H. 432	0	3	0
Electives	3	3	3
	19	18	20

### BOTANY

Professor B. W. Wells, Head of Department

Professors D. B. Anderson, S. G. Lehman, R. F. Poole; Associate Professor I. V. Shunk; Assistant Professors M. F. Buell, L. A. Whitford.

### Equipment and Facilities

Location.—The Department of Botany occupies the second floor of Patterson Hall and the east end of the basement floor, where an adjoining greenhouse is available for the work in plant physiology.

Laboratories.—The laboratories are all equipped with projection lanterns. A well-organized herbarium supports the work in systematic botany and dendrology.

Purpose.—The Department emphasizes those phases of plant science which are foundational for the work in Agriculture and Forestry.

### CURRICULUM IN PLANT PATHOLOGY

For Freshman and Sophomore years refer to page 55.

### Junior Year

		CREDITS	
Courses	First Term	Second Term	Third Torm
Business English, Eng. 211	3	0	0
Public Speaking, Eng. 231	0	3	ň
Technical Writing II, Eng. 323	0	ň	3
Bacteriology, Bot. 402		4	ň
Diseases of Field Crops, Bot. 301	2	0	Ň
Diseases of Fruit and Vegetable Crops, Bot. 303	0	ŏ	ÿ
Plant Ecology, Bot. 441		Ŏ	0
Economic Entomology, Zool. 213		0	ų,
Plant Morphology, Bot. 411, 412		U n	4
Plant Breeding, F.C. 463		٥	Ů.
Electives		V	3
	<b>b</b>	8	<b>a</b>
	18	18	18

#### Senior Year

		CREDITS	
Courses	rst Term	Second Term	Third Term
Plant Microtechnique, Bot. 451	3	0	0
Advanced Plant Pathology, Bot. 401	0	5	0
Pathogenic Fungi, Bot. 481-2-3	3	3	3
Soil Microbiology, Bot. 443	0	0	3
Genetics, Zool, 411	4	0	0
Microanalysis of Plant Tissue, Bot. 442	0	3	0
Qualitative Analysis, Chem. 211	4	0	0
Quantitative Analysis, Chem. 233		0	4
Electives	4	7	8
			_
	18	18	18

### CHEMISTRY

### Professor A. J. Wilson, Head of Department

Professors L. F. Williams, G. H. Satterfield; Associate Professors W. E. Jordan, M. F. Showalter; Assistant Professors H. L. Caveness, A. D. Jones, W. E. Singer; Instructors W. A. Reid, C. A. Flanders, P. P. Sutton.

Curriculum.—The Department of Chemistry does not offer a Bachelor of Science degree in Chemistry. However, a student may register in the School of Agriculture with a major in Agricultural Chemistry. This curriculum affords extended courses of chemical training which will fit a graduate for positions such as those in State Experiment Stations, and in State and Federal laboratories, for the inspection and control of fertilizers, feeds, foods, and other commodities, and as chemist in industrial plants.

Instruction.—Instruction in the Department of Chemistry embraces the courses of lectures and the related courses of laboratory work which are described in detail under the appropriate heading of each individual course included in the curricula of the Department.

New Building.—The Chemistry Department is now housed in a new fourstory brick building. This building provides adequate and modern laboratories for general chemistry and qualitative and quantitative analysis, and for organic, physical, and biological chemistry. Numerous recitation rooms are provided, besides the large main lecture room.

Library.—Part of one wing of the building has been set aside for the General Science Library, supervised by a full-time trained librarian.

Future.—The building is planned to fulfill the needs of the Chemistry Department for the next ten years, and also with a view to later expansion to approximately twice the present size.

### CURRICULUM IN AGRICULTURAL CHEMISTRY

For Freshman year refer to page 55.

### Sophomore Year

		CREDITS	
Courses	st Term	Second Term	Third Term
General Botany, Bot. 101	4	0	0
Economic Zoology, Zool. 102	0	4	0
Animal Physiology, Zool. 202, or			
Plant Physiology, Bot. 221	0	0	5
Qualitative Analysis, Chem. 211	4	0	0
Quantitative Analysis, Chem. 212, 213	0	4	4
Soils, Soils 201	4	0	0
Bacteriology, Bot. 402	0	4	0
Animal Nutrition I, A.H. 202	0	0	3
General Economics, Econ. 201, 202	3	3	0
Agricultural Economics, Agr. Econ. 202	0	0	3 2
Military Science II, Mil. 201, 202, 203, or alternate	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
			_
	18	18	18
Junior Year			
Organic Chemistry, Chem. 421, 422, 423	A	4	4
Physics for Textile Students, Phys. 111, 112, 113	4	4	7
French or German	3	3	2
Elective Chemistry		3	<b>3</b> 3 3
Elective Agriculture		š	3
Electives	3	3	3
	_	_	
	20	20	20
Senior Year			
Chemistry Major	7	7	
French or German		3	3
Electives	9	ğ	9
	19	19	19

### FIELD CROPS AND PLANT BREEDING

Professor G. K. Middleton, Head of the Division

Assistant Professors J. A. Rigney, P. H. Harvey, R. L. Lovvorn; Instructor C. L. Davis,

North Carolina ranks among the five leading states of the nation in the value of farm crops produced. Approximately eighty per cent of its total farm income is from crops. This Division was set up to give definite instruction on the crops of the State and in plant breeding.

The curriculum is flexible and permits the student to choose the type of training he needs. A sufficient number of optional courses is provided to allow for a general training in agriculture or for specialization in any of the many phases of agronomy.

Available Equipment for Teaching field crops consists of standard apparatus, and of official types for the study and determination of the market grades of cotton, tobacco, corn, small grain, peanuts and hay.

Advanced Students are afforded an opportunity of closely observing the field crop research work being carried on in greenhouses and in the field by the Division. A greenhouse, nursery and specimen garden provide facilities for practice work in plant hybridization and in other phases of research on field crops.

### CURRICULUM IN FIELD CROPS AND PLANT BREEDING

For Freshman and Sophomore years refer to page 55.

### Junior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Genetics, Zool, 411	4	0	0
English	3	3	3
Soil Fertility, Soils 221	3	0	0
Fertilizers, Soils 302		3	0
Cereal Crops, F.C. 302		3	0
Pastures and Forage Crops, F.C. 443	0	0	4
Major Options	5	5	4
Electives	3	4	7
	_	_	_
	18	18	18
Senior Year			
Major Options	6	6	6
Technical Agriculture	6	6	6
Electives	6	6	6
	<del>-</del>	<del></del>	
	18	18	18

#### FORESTRY

Professor J. V. Hofmann, Director of the Division.

Professor L. Wyman; Associate Professor W. D. Miller; Assistant Professor G. K. Slocum.

Areas for Field Work.—Some of the field work of the Department of Forestry is now carried on at the Camp Polk Prison Farm, near the State Fair Grounds, which has a thousand acres of timber land. The supervision of the timber is handled by class projects.

The Poole Woods, six miles east of Raleigh, is a virgin tract containing stands of short-leaf and loblolly pine. This is an area of seventy-five acres that has been acquired for a laboratory and is a last remnant of the virgin stand of timber in this locality.

The George Watts Hill Demonstration Forest, near Durham, is a tract of 1,400 acres which has been given to the College. It contains stands of short-leaf, loblolly pine, oaks, gum, tulip, dogwood, and all of these species in different associations. It is rolling country and serves admirably for the study of forest problems in the Piedmont section.

The MacLean Forest located in Hyde County, in the eastern part of the State, is in the typical Coastal Plain region. It contains 1,554 acres and is used for demonstration work in the east-coast type.

Jones and Onslow.—A large tract of land has recently been acquired in Jones and Onslow Counties in the southeastern part of the State, which consists of more than 84,000 acres and has the various types of timber found in this region. The large areas of virgin timber make a very complete laboratory for studying forest development and succession.

Total Areas.—In all, the Forestry Department has available about 87,000 acres on which to do field work, demonstration, and research. These areas include the various types found in North Carolina except those of the Mountain Region.

The Arboretum area of seventy acres near Raleigh is being developed to contain all of the tree species and associated shrubs that grow in this climatic condition. It contains swamp land and upland which adapts it for this use. More than a hundred species have already been planted in this area.

The Wood Technology Laboratory contains a representative collection of the more common woods and will be gradually extended.

The Timber-Testing Laboratory, in connection with the Engineering Experiment Station, contains the machines for the various timber tests.

Greenhouse space is available for special problems in forest research.

### FORESTRY

Purposes.—The aims of the curriculum in Forestry are: (1) to train young men for work in the technical and applied fields of forestry on public or private forest land; (2) to give special training in fields of research; (3) to advance the knowledge of the entire profession.

Growth.—The profession of forestry is comparatively young in North Carolina. It began some thirty years ago and has made remarkable progress during its first quarter century of existence. The next decade promises more advancement and achievement than all of the past, because the foundation has been laid and the building of the superstructure will depend upon the expertness of the builders. In the ranks of the builders are included the United States Forest Service; State Forest Departments in a large number of States; corporations and lumber companies; individual landowners; last, but by no means least, the farm woodlands.

Occupations.—Students completing the Forestry course may look to the following fields of employment: United States Forest Service, the State Service, including not only North Carolina, but especially the Southern States and any other State organizations, the lumber companies, timber-holding companies, corporations, and individuals. The forestry program in the State of North Carolina is very materially strengthened by the presence of the national forests and the Appalachian Forest Experiment Station. These will be of direct aid in the study of forest research problems, management problems and the organization and work of the National Forest Service.

Forest Management aims to make a forest properly a permanent producing unit. All forestry is now being built on this basis.

Forest Utilization requires special courses dealing with the utilization of the products of the forest. During the third term of the senior year field studies of woodworking industries, logging operations, paper and pulp mills and problems in forest management take up most of the time.

Silviculture deals with the problems of producing a forest, such as selection of species, methods of reproduction, cutting systems, etc. The work is becoming increasingly important as our virgin timber supply is depleted.

Research in Forestry Problems is being recognized by all agencies in the fields of Forestry. Men trained in research methods are needed in the government experiment stations, state experiment stations, and private laboratories.

Graduation.—A minimum of 236 term credits with at least 236 honor points are required for graduation in Forestry.

A Field Trip through the Southeastern and the Gulf States is required for the senior class to study Applied Forestry under field and factory conditions. Local field trips are also required of other classes. A nominal fee is charged to cover the expense of these trips.

### CURRICULUM IN FORESTRY

#### Freshman Year

CREDITS

60

COURSES Drawing, C.E. 101, 102, 103 Botany, General and Systematic Bot. 101, 102, 203 Mathematical Analysis, Math. 111, 112 Composition, Eng. 101, 102, 103 General and Economic Zoology, Zool. 101, 102 Economic Entomology, Zool. 213 Elementary Forestry, For. 101, 102, 103 Introductory Sociology, Soc. 202 Military Science I, Mil. 201, 202, 203, or	1 4 0 3 4 0 3	Second Term 1 4 3 0 1 0	Third Term  1 3 4 3 0 4 1 0
Human Relations, Soc. 101, 102, 103		2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	19	20	19
Math of Finance, Math. 113 Introduction to Economics, Econ. 205 Land Economics, Agr. Econ. 212 Plant Physiology, Bot. 221 Dendrology, Bot. 211, 213 General Inorganic Chemistry, Chem. 101, 102, 103 Wood Technology, For. 202 Physical Geology, Geol. 120 Surveying, Theoretical, C.E. 221, 222 Field Surveying, C.E. 225 Topographical Drawing, C.E. 224 Introduction to Psychology, Psychol. 200 Military Science II, Mil. 101, 102, 103, or World History, Hist. 104 Sport Activities, P.E. 201, 202, 203	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 0 0 4 3 4 4 3 1 0 0	4 0 0 0 3 4 0 0 3 0 1 1 3 2 1

### Summer Camp

		CREDITS	
Courses Fire	st Term	Second Term	Third Term
Surveying and Mapping, C.E. s300	0	0	3
Dendrology, For. s214	ŏ	ň	3
Mensuration, For. s304	ŏ	ŏ	3
Silviculture, For. s204	ň	0	3
Suviculture, For. 8204	U	U	ა
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			12
Junior Year			
Junior Tear			
Forest Protection and Improvements, For. 342	0	3	0
Nursery Practice, For, 313	Ŏ	Õ	Ť
Soils, Soils 201	4	ň	ñ
Mensuration I, II, For. 402, 403	ò	3	3
Silviculture I, II, For. 311, 312	ž	3	ň
English	3	ő	3
Forest Entomology, Zool, 302	ő	3	ő
Plant Ecology, Bot. 441	Š	ő	Ô
Meteorology, Phys. 322	0	3	-
Forest Finance, For. 442	0	3	0
	3	ő	
Survey of Statistical Methods, Econ. 408	0	ů	0
Elective in Social Science Group			6
Electives	3	3	6
	19	21	19
Senior Year			
Logging, For. 421	3	0	0
Diseases of Forest Trees, Bot. 311	3	ň	Ŏ
Silviculture III, IV, For. 411, 412	3	3	Ŏ
Forest Management, For. 431, 432	3	3	ŏ
Seminar, For, 452	ň	2	ŏ
Forest Products, For. 321	3	õ	ŏ
Forest Utilization, For, 323	ŏ	ŏ	
Timber Appraisal, For. 443	ŏ	ŏ	2 2 0 3 5
English	ŏ	3	ñ
Senior Field Trip, For. 453	ŏ	ő	9
Electives	3	ě	5
LICCUTCS		0	Đ
	18	17	12

### HORTICULTURE

Professor M. E. Gardner, Head of the Department

Associate Professor G. O. Randall; Assistant Professor J. G. Weaver.

Equipment.—The Department of Horticulture is well prepared in classrooms and in laboratory and field equipment to offer instruction in its several important and diverse fields.

Pomology and Small-Fruit Culture.—The College orchards and vineyards, the laboratories, a nursery plot, and other facilities are available to treat every phase of fruit-growing from the selection and propagation of varieties to the details of orchard management.

Olericulture and Floriculture.—Four modern greenhouses are an important part of the equipment of the Department, and are used primarily for experimental and instructional work in these two important and growing fields of horticulture. Potting rooms, propagation benches, and other more specialized equipment are used for both undergraduate and graduate in-

struction. Land and equipment to demonstrate and study details of commercial olericulture are convenient to the greenhouses.

Special Study and Research.—A Physiological and a Cytological Laboratory, calculating machines, library, greenhouses, and land are available to graduate and undergraduate students to carry on special studies. Projects conducted by the Experiment Station Staff are also available for study and observation.

Library.—The departmental library contains approximately twenty thousand technical and popular bulletins covering all phases of Horticulture, and complete bound volumes of the Proceedings of the American Society for Horticultural Science and many other periodicals pertaining to horticultural subjects.

### CURRICULUM IN FLORICULTURE

For Freshman and Sophomore years refer to page 55.

		CREDITS	
Courses	First Term	Second Term	Third Term
Public Speaking, Eng. 231	3	0	0
Plant Ecology. Bot. 441	3	0	0
Bacteriology, Bot. 402	0	4	0
Systematic Botany, Bot. 203	0	0	3
Diseases of Fruit and Vegetable Crops, Bot. 303	0	0	3
Genetics, Zool, 411		0	0
Economic Entomology, Zool. 213	0	0	4
Plant Propagation, Hort, 301		3	Ö
Soil Fertility, Soils 221		0	Ö
Soils of North Carolina, Soils 312	0	3	0
Fertilizers, Soils 302		3	Ö
Woody Plants, L.A. 201, 202, 203	2	2	2
Terracing and Drainage, Agr. Eng. 303		0	3
Plant Materials: Herbaceous Plants, L.A. 303	0	0	3 2
Electives	3	3	3
	_	_	_
	18	18	20
Senior Yes	ar		
Business English, Eng. 211			
Technical Writing II, Eng. 323	3	0	0
Commercial Floriculture, Hort. 341		0	3
Horticultural Problems, Hort. 421, 422, 423		0	0
		2	2
Seminar, Hort. 431, 432, 433 Experimental Horticulture, Hort. 412		1	1
Agricultural Cooperation, Agr. Econ. 422		3	0
Rural Sociology, Rural Soc. 302		3	0
Agricultural Chemistry, Chem. 481		0	3
Plant Breeding, F.C. 463		0	0
Applied Psychology, Psychol. 302		0	3
Landscape Gardening, L.A. 403		3	0
Electives		0	3
ANCHORITES		b	3
	19	18	18

## CURRICULUM IN POMOLOGY

For Freshman and Sophomore years refer to page 55.

		CREDITS	
Courses	First Term	Second Term	Third Term
Public Speaking, Eng. 231	3	0	0
Business English, Eng. 211		3	0
Technical Writing II, Eng. 323		0	3
Plant Ecology, Bot. 441		Ŏ	Ō
Small Fruits and Grapes, Hort. 311	3	Ó	0
Plant Propagation, Hort. 301	0	3	0
Vegetable Gardening, Hort. 303		0	4
Soil Fertility, Soils 221		0	0
Fertilizers, Soils 302		3	0
Terracing and Drainage, Agr. Eng. 303		0	3
Ornamental Plants, L.A. 402		2	0
Landscape Gardening, L.A. 403		0	3
Genetics, Zool. 411		0	0
Economic Entomology, Zool, 213	0	0	4
Applied Psychology, Psychol. 302	0	3	0
Electives	3	3	3
		_	
	19	17	20
Senior Year			
Bacteriology, Bot. 402	0	4	0
Diseases of Fruit and Vegetable Crops, Bot. 303		7	3
Systematic Botany, Bot. 203		ň	3
Systematic Pomology, Hort. 401	2	ň	ň
Fruit Growing, Hort. 331		ŏ	ŏ
Horticulture Problems, Hort. 421, 422, 423	2	ž	2
Seminar, Hort. 431, 432, 433		ī	ī
Experimental Horticulture, Hort. 412		3	ō
Farm Management I, Agr. Econ. 303		Ō	3
Plant Breeding, F.C. 463		0	3
Farm Meats I, A.H. 301	0	3	0
Agricultural Chemistry, Chem. 481		0	0
Rural Sociology, Rur. Soc. 302		3	0
Poultry Elective		0	0
Electives	3	3	3
		_	

## CURRICULUM IN VEGETABLE GARDENING

For Freshman and Sophomore years refer to page 55.

COURSES F	iret Term	CREDITS Second Term	Third Tern
Public Speaking, Eng. 231		Decond Leim	1 11.61 14. 1 61 11
		3	ŏ
Business English, Eng. 211		ő	ň
Plant Ecology, Bot. 441		Ų	ň
Bacteriology, Bot. 402	0	4	
Systematic Botany, Bot. 203		0	3
Diseases of Fruit and Vegetable Crops, Bot. 303		0	3
Fruit Growing, Hort. 331		0	0
Plant Propagation, Hort. 301		3	0
Vegetable Forcing, Hort. 302		3	0
Vegetable Gardening, Hort. 303		0	4
Soil Fertility, Soils 221		0	0
Fertilizers, Soils 302	. 0	3	0
Genetics, Zool. 411		0	0
Economic Entomology, Zool, 213	. 0	0	4
Terracing and Drainage, Agr. Eng. 303	. 0	0	3
Electives		3	3
	_		_
	20	19	20
Senior Year			
Technical Writing II, Eng. 323	0	0	3
Systematic Olericulture, Hort. 411	. 2	Ŏ	Õ
Small Fruits and Grapes, Hort, 311	. 3	Ŏ	Õ
Horticultural Problems, Hort. 421, 422, 423	. 2	ž	ž
Seminar, Hort. 431, 432, 433	. 1	ĩ	ī
Experimental Horticulture, Hort, 412		3	õ
Home Floriculture, Hort. 313	. 0	ő	3
Agricultural Chemistry, Chem. 481	3	ŏ	ő
Plant Breeding, F.C. 463	0	ŏ	3
Ornamental Plants, L.A. 402		2	ŏ
Landscape Gardening, L.A. 403		ő	3
Agriculture Cooperation, Agr. Econ. 422	ŏ	3	ő
Dairying, A.H. 341	3	ŏ	ő
Soils of North Carolina, Soils 312		3	0
Rural Sociology, Rur. Soc. 302	0	3	0
Electives		3	•
		<u> </u>	٥
	20	20	18

### LANDSCAPE ARCHITECTURE

Professor J. P. Pillsbury, Head of the Division

Associate Professor G. O. Randall; Assistant Professor J. G. Weaver.

A comparative study of Landscape Architecture, with Architecture, the oldest art of design, will disclose the fact that distinct parallelism exists between these two fields of human endeavor. Not only in the character and extent of the training required in each case is this shown, but also in the division of work which takes place, and in the relationships existing among those responsible for various parts of the work in the practice of these two closely associated professional fields.

Training in Landscape Architecture is a composite derived from the fine arts, certain branches of engineering, and ornamental horticulture. Properly it is dominated by the principle of design, and therefore may be correctly classified as a fine art. Similarly as in architecture, its province is the design of landscapes, the preparation of plans and specifications for them, and supervision during construction.

The Curriculum in Landscape Architecture is strictly undergraduate. Its purpose is to provide a broad and thorough foundation for the additional postgraduate training which the profession requires of those desiring to enter its ranks. It also presents an open door to the professional fields of city or regional planning as the student may elect when undertaking graduate work. The soundness of the curriculum here presented is attested not only by the fact that at no time has the services of its graduates been fully satisfied, but also by the successes of those who have pursued graduate training and attained to full rank in the professional field of Landscape Design.

Training in Landscape Construction is similar, but with emphasis upon materials and methods of construction employed in engineering and ornamental horticulture.

Training in Landscape Gardening is essentially ornamental horticulture. In neither case is graduate work required, since their provinces will not include the design of landscape, but only the execution of plans under supervision, in the one case, and maintenance of the constructed landscape, in the other. Students electing either of these two lines of study will for their first two years pursue the Basic Curriculum in General Agriculture, with two or three appropriate substitutions from other curricula, as indicated.

General Equipment and Special Facilities for instruction are ample in the combined resources of Civil and Architectural Engineering, Horticulture, and Landscape Architecture.

Plant Materials in extensive collections on the College grounds and at various points elsewhere within a short distance, furnish an ample supply

of all kinds for both study and use. In addition several notable collections are available for occasional visits, and study.

The Material for Landscape Design and Construction available on College grounds, private properties, and numerous public and semipublic areas and institutions in and about Raleigh, provide a wide range of subjects for study and practice. The City of Raleigh itself is a most interesting city planning study, since it is one of the very few existing examples of a capital city which was planned in advance of its building.

### CURRICULUM IN LANDSCAPE ARCHITECTURE

### Freshman Year

0	n	CREDITS	m1:-1 m
Courses Algebra, Trigonometry, Analytical Geometry,	rirst Term	Second Term	Inita I erm
Math. 101, 102, 103	6	6	6
Composition, Eng. 101, 102, 103		3	3
Botany, General and Systematic, Bot. 101, 102, 203 Engineering Drawing II, and		4	3
Descriptive Geometry, M.E. 105, 106, 107		3	3 2
Arboriculture, L.A. 101, 102, 103	1	1	1
Military Science I, Mil. 101, 102, 103, or			
Human Relations, Soc. 101, 102, 103		2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	21	21	21
Sophomore Yea	r		
Business English and Public Speaking, Eng. 211, 231	3	0	3
Plant Physiology, Bot. 221	0	ŏ	5
Plant Propagation and Nursery Practice, Hort. 301		0	0
Physical Geology, Geol. 120	0	4	0
Introduction to Economics, Econ. 205 Introduction to Psychology, Psychol. 200		3	0
Introduction to Architecture, Arch. 201		0	0
Elements of Architecture, Arch. 202, 203		3	š
Surveying, Theoretical, C.E. 221, 222		3	0
Field Surveying, C.E. 225, 227		0	1
Plant Materials, Woody Plants, L.A. 201, 202, 203 Theory of Landscape Design, L.A. 212, 213		2 3	2 3
Military Science II, Mil. 201, 202, 203, or	0	ა	3
World History, Hist. 104	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	21	21	20
Surveying, C.E. s310, concurrent with Summer School, 3	credits.		
Junior Year			
Plant Materials: Herbaceous Plants, L.A. 203	0	0	2
Plant Ecology: Bot. 441	3	Ö	ō
History of Landscape Design, L.A. 311, 312	3	3	0
Landscape Design I, L.A. 321, 322, 323	4	4	4
Technical Writing, Eng. 321 Shade and Shadows, Arch. 205	2	0	3
Freehand Drawing I, Pen and Pencil Drawing, Arch. 1	01 2	0	0
Freehand Drawing II. Water Color, Arch. 102	0	2	0
Freehand Drawing III, Charcoal, Arch. 103	0	0	2
Perspective Drawing, Arch. 206 Economic Zoology and Entomology, Zool. 102, 213	0	2	0
History of Architecture, Arch. 321, 322	3	3	4 0
Electives	3	0	5
	20	18	20

### Senior Year

		CREDITS		
		Second Term	Third Term	
Planting Design, L.A. 411, 412, 413	3	3	3	
Landscape Design II, L.A. 421, 422, 423	4	4	4	
City Planning, L.A. 432		3	Ō	
Landscape Construction, L.A. 451, 452, 453	2	2	2	
Pencil Sketching, Arch. 100	3	0	0	
Accounting for Engineers, Econ. 212	0	3	Ö	
Appreciation of Fine Arts, Arch. 111, 112, 113	3	3	3	
Electives	3	0	6	
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	18	18	18	

## POULTRY SCIENCE

Professor R. S. Dearstyne, Head of the Department.

Assistant Professor N. W. Williams; Instructors H. C. Gauger, R. E. Greaves, F. W. Cook.

Laboratories.—The Poultry Department is housed on the second floor of Ricks Hall. It embraces the Disease-Diagnostic, the Anatomy, and the Disease-Research Laboratories, the Incubator Room, and two Live-Bird Laboratories.

The Seminar Room, affording access to technical and to popular poultry publications, is open to the students at all times. The Disease and the Anatomy Laboratories are well equipped for teaching.

The Poultry Plant consists of forty buildings located on seventeen acres of land. An 18,000 capacity Smith incubator is used for teaching commercial incubation.

Research.—A substantial research program is in operation at this plant. Three breeds of birds are kept and approximately 2000 layers are maintained. All birds are pedigreed and trapnested. About 4000 chicks are produced each year, all of these being pedigreed.

# CURRICULUM IN POULTRY SCIENCE

For Freshman and Sophomore years refer to page 55.

## Junior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
English Elective		3	0
Technical Writing II, Eng. 323		0	3
Public Speaking, Eng. 231	0	0 3	3
Poultry Anatomy, Poul. 311, 312		0	0
Poultry Judging, Poul. 301		0	4
Preparation and Grading of Poultry Products, Poul. 333		3	0
Incubation and Brooding, Poul, 303	0	Õ	3
Bacteriology, Bot. 402		4	ő
Genetics, Zool, 411		õ	ő
Vertebrate Embryology, Zool, 461		Ŏ	ō
Cereal Crops. F.C. 302	0	3	0
Farm Management I, Agr. Econ. 303	0	0	3
Electives	3	3	3
	19	19	19
Senior Year			
Poultry Diseases, Poul. 401, 402	4	4	0
Sero-Diagnosis in Poultry Diseases, Poul. 403		ō	3
Commercial Plant Management, Poul. 412	0	3	Ō
Selecting and Mating Poultry, Poul. 413	0	0	3
Senior Seminar, Poul. 423		0	3
Swine Production, A.H. 331		0	0
Dairy Cattle and Milk Production, A.H. 321		Ō	0
Fruit Growing, Hort. 331		0	0
Turkey Production, Poul. 342		3	0
Rural Sociology, Rur. Soc. 302 Agr. Marketing, Agr. Econ. 411		3	0
Terracing and Drainage, Agr. Eng. 303		0	0
Chemistry of Vitamins, Chem. 462		2	3
Electives		3	6
LICONTCO			_
	20	19	18
			10

#### SOILS DIVISION

Professor: C. B. Clevenger, Head of Division

Associate Professor: J. F. Lutz

Purpose and Scope.—The objectives in Soils instruction are twofold: (1) to give a large number of students information on soils basic to agriculture and land use; (2) to give instruction and training to a few who wish a more thorough knowledge and understanding of the soil in connection with its formation, classification, productiveness, fertilization, use, and relation to social welfare. To provide for this technical training the Soils curriculum is offered.

Problems of the soil are becoming more numerous and more complex, for no longer can farmers solve them by migrating to more productive soils. While soil difficulties have been in the past largely of individual concern, they are now of state and national importance since soil problems are becoming too much the rule rather than the exception. The soil is not static in character; it is constantly being modified by its environment and management.

The soil is a natural body composed of mineral and organic matter, air, water, and living micro-organisms. The reactions of and changes in these components extend into the fields of chemistry, geology, physics and biology, which sciences are fundamental to soils. The electives in the Soils curriculum provide for cultural and other subjects contributing to the student's training and aims. During the advanced undergraduate years, the student comes in contact with the research men of the Experiment Station and learns the nature and technique of the investigational work in progress.

Research in soils may take direction in one of two directions: (1) the soil as a medium for crop production; (2) the study of the constitution of the soil itself. The former leads directly to practical considerations, the latter to the more fundamental knowledge which supports the former. These types of work go hand in hand. No state in the Union offers better opportunities for soil and fertilizer studies than North Carolina for within her borders are soils derived from a large variety of parent materials and developed under climatic conditions varying from a subtropical climate in the southeastern part of the state to the cooler climates of the mountains. This state has been one of the few which has steadily pushed forward her soil survey-work so that now county soil-survey reports and maps are available for practically all the counties of the entire state.

Equipment.—The Division is provided with laboratories and laboratory apparatus and equipment especially adapted to teaching and research work on soils and soil problems.

Opportunities for Graduates in Soils.—The number of graduates in soils throughout the country has never been large. In the past, graduates with soils training have taken positions with agricultural colleges and experiment stations in teaching, research, and extension work; with state and federal agencies in soil survey, soil-conservation and investigational work; with private companies and railroads as agronomists; with banks and insurance companies as land appraisers. In all agricultural work, there exists potential opportunities for the graduate trained in Soil Science.

### CURRICULUM IN SOILS

For Freshman and Sophomore years refer to page 55.

#### Junior Year

			CREDITS	
Courses	First	Term	Second Term	Third Term
English Elective or Modern Language		3	3	3
Soil Fertility, Soils 221		3	0	0
Fertilizers, Soils 302		Ō	3	0
Soils of North Carolina, Soils 312		0	3	0
Qualitative and Quantitative Analysis, Chem. 211, 212.		4	4	4
Pastures and Forage Crops, F.C. 443		0	0	4
Electives		9	6	6
		19	19	17
Senior Year				
Soil Technology, Soils 411, 412, 413		3	3	3
Pedology, Soils 401		3	ő	Ō
Soil Conservation and Land Use. Soils 433		ō	0	3
Soils Seminar, Soils 451, 452, 453		1	1	1
Bacteriology, Bot. 402		0	4	0
Organic Chemistry, Chem. 422, 423		0	4	4
Drawing, C.E. 101, 102, 103		1	1	1
Electives		10	4	6
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### ZOOLOGY AND ENTOMOLOGY

Professor Z. P. Metcalf, Head of the Department.

Professor T. B. Mitchell; Associate Professors, C. H. Bostian, R. O. Stevens; Assistant Professors, F. B. Meacham, F. H. McCutcheon, R. Harkema.

Teaching and Research.—The space devoted to Zoology is equipped to present the various subjects and to carry on research in its own and related fields. The Entomology Laboratory has a large Insectary with the usual equipment, and has an especially large collection of breeding animals for research and instruction in their field.

Beekeeping.—The Beekeeping Laboratory is well provided with apparatus to illustrate all phases of beekeeping. A small Apiary is maintained on the College grounds.

Graduate Work.—The Technique and Graduate Laboratories are especially well equipped for the teaching of graduate work. The Museum contains a synoptic collection illustrating most groups of animals.

Curricula.—The Department of Zoology offers curricula in Entomology and in Wildlife Conservation and Management set forth as follow.

### CURRICULUM IN ENTOMOLOGY

For Freshman and Sophomore years refer to page 55.

ound Ital			
		CREDITS	
Courses	First Term	Second Term	Third Term
Systematic Zoology, Zool. 421, 422, 423		3	3
Genetics, Zool, 411	4	0	0
Genetics, Zool. 411	0	4	4
Modern Language		3	3
Systematic Botany, Bot. 203	0	0	3
Physiological Chemistry, Chem. 451, 452	3	3	0
Public Speaking, Eng. 231	0	3	0
Technical Writing II, Eng. 323	0	0	3
Electives	6	3	3
	_	<del></del>	_
	19	19	19
Senior Year			
Vertebrate Embryology, Zool. 461	5	0	0
Field Zoology, Zool. 433		Ŏ	4
Applied Entomology, Zool. 401, 402, 403	3	3	3
Modern Language		3	3
Beekeeping, Zool, 243		0	3
Plant Ecology, Bot. 441		0	0
Histology, Zool. 442	0	3	0
Bacteriology, Bot. 402	0	4	0
Electives	3	4	4
	_	=	
	17	17	17

### WILDLIFE CONSERVATION AND MANAGEMENT

Principles.—The Wildlife Management Curriculum is based on the following fundamental principles: (1) All forms of wild animal life must be considered in any extensive system of wildlife management; (2) the animal life of any given area is in close relationship to the vegetation existing in that area; (3) in favorable environment, the species of wildlife will normally produce a surplus, a part of which can be harvested each year in a manner similar to the harvesting of other crops.

Conservative Approach.—Since wildlife management is just getting under way in this country, it would not seem advisable to encourage too rapid an expansion of this profession at the present time, although there is a distinct need for a moderate number of well-trained men to promote and supervise wildlife management in the many sections of the country.

Positions.—The curriculum is designed to furnish a technical and practical background for the following types of positions: (1) Wildlife-Management technicians in State Game and Fish Departments; (2) Biologists in the United States Biological Survey, Forest Service, Soil Conservation Service, National Park Service, and other Federal Land-Use Departments; (3) Game Managers on private preserves or leased areas, State game refuges, and on other land areas which are being developed primarily for wildlife.

Research.—Because of the great need for research and experimental work in this field, the required courses in the curriculum are also designed to give the basic technique necessary to students who may desire to enter this phase of wildlife management. Several elective courses will be available for junior and senior students to enable them to specialize in some particular phase of the work.

State Advantages.—Unusual advantages are offered to competent students by the wide range of natural environments in the North Carolina Coastal Plain, Piedmont, and Mountain Region. Further advantages are available by reason of close coöperation with the State Division of Game and Inland Fisheries and the opportunity to observe developments in wild-life management on the following areas: Mount Mitchell Game Preserve, Resettlement Sandhill Project, Soil Conservation Service projects, Mattamuskeet Water Fowl Preserve, and preserves in the Piedmont and on the Coastal Plain.

# CURRICULUM IN WILDLIFE CONSERVATION AND MANAGEMENT

## Freshman Year

Courses	First Term	CREDITS Second Term	Third Term
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Mathematical Analysis, Math. 111, 112	0	4	4
General Zoology, Zool. 101	4 0	9	0
Economic Zoology, Zool. 102 Physical Geology, Geol. 120	0	Õ	4
Economic History, Hist. 101, 102, 103	3	3	4 3 0 2 1
Elementary Wildlife Management, Zool. 111		0 2	0
Military Science I, Mil. 101, 102, 103, or alternate Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	18	21	21
Sophomore Yea			
Agricultural Physics, Phys. 115 Botany, General and Systematic, Bot. 101, 102, 203	0	0	5
Botany, General and Systematic, Bot. 101, 102, 203	4	4	3
Introduction to Organic Chemistry, Chem. 221	0	0	4
Land Economics, Agr. Econ. 212	Λ	0	3 4 0 0 0 4 0 2 0 0 0 0
Public Speaking, Eng. 231 Comparative Anatomy, Zool. 222, 223 General Field Crops, F.C. 202	3	3 0 4 3 2 3 0	ŏ
Comparative Anatomy, Zool. 222, 223	0	4	4
Ornithology Zool 251 252 252	0	3	0
Ornithology, Zool. 251, 252, 253 Surveying, Theoretical, C.E. 221, 222 Surveying, Field, C.E. 225	2 3	<u>z</u> 3	2
Surveying, Field, C.E. 225	1	ő	ŏ
Principles of Forestry, For. 111 Military Science II, Mil. 201, 202, 203, or alternate	3	0	Ō
Sport Activities, P.E. 201, 202, 203, or alternate	2 1	2 1	2
DP014 11011111003, 1 121, 201, 200			
	22	22	21
Junior Year			
Plant Propagation and Nursery Practice, Hort. 301	0	0	9
Dendrology, Bot. 211, 213	3	ŏ	3
Plant Ecology, Bot. 441	3	0	ŏ
Field Zoology, Zool. 433		0 4	3 0 4 0 4 0 3 3 0
Economic Entomology, Zool. 213		0	U A
Animal Physiology, Zool. 202	0	5	ō
Wildlife Conservation, Zool. 321, 322, 323 Technical Writing II, Eng. 323	3	3	3
Soils, Soils 201	4	0	3
Electives	6	6	ŏ
		-	_
	19	18	20
Senior Year			
Elective Social Science	3	0	0
Elective English	9	0	
Wildlife Management Zool 451 459 452		3	3
The Soils of North Carolina, Soils 312	0 0	0 3 3	3
Advanced Animal Ecology, Zool. 462, 463	0	3 3	0
Advanced Plant Ecology, Bot. 453 The Soils of North Carolina, Soils 312 Advanced Animal Ecology, Zool. 462, 463 Parasitology, Zool. 492, 493 Electives	ŏ	3	0 3 0 3 8 6
Electives	9	6	6
	13	10	
	19	13	18

### THE AGRICULTURAL EXPERIMENT STATION

I. O. SCHAUB, Acting Director

Establishment.—The Agricultural Experiment Station was established in accordance with an Act of the General Assembly of 1877. Its progress has been enhanced by different Acts of Congress giving to the Station additional funds in 1877, 1906, 1925, and 1935. These Acts are known as Hatch, Adams, Purnell, and Bankhead-Jones, respectively. The General Assembly has allocated to the Station annually certain funds from revenue collected by the State Department of Agriculture from taxes on fertilizers and feeds.

Purpose.—The purpose of the Agricultural Experiment Station is to study methods for economic production of the highest grades of livestock, poultry, and plants on the many soil types and varied conditions existing throughout the commonwealth; to study methods for the control of parasitic insects and organisms that cause serious economic losses of animals, poultry, and plants; to find and develop varieties of animals, poultry, and plants, new, and resistant to diseases and the changeable conditions prevailing in this State; and to perfect better marketing for all agricultural products.

Work.—The staff of the Agricultural Experiment Station conducts experiments throughout the State on areas owned by farmers, on six strategically located test farms, on farms rented for short periods, and in the greenhouses and laboratories of the College.

Research.—The agricultural research aims, through the discovery of new facts, to improve the well-being of farmers throughout the State; to strengthen the regulatory work of the State Department of Agriculture; to develop new and necessary facts for the teaching of sound agricultural principles by vocational agricultural instructors, agricultural extension agents, and agricultural instructors in the College.

Experts.—The Agricultural Experiment Station staff brings to the College many experts, whose teachings in many specialized fields of agriculture assure the maintenance of curricula of high standards. It contributes much to the advanced training of students who are destined to become the leaders, teachers, and investigators so necessary in the maintenance of agriculture on sound and economic planes.

Publications.—The Agricultural Experiment Station publishes many bulletins and scientific papers on results of research conducted by the staff. These are free and sent upon request of anyone in the State.

Problems.—The staff diagnoses and interprets many problems for the farmers of this State; holds council with farmers and others interested in the agricultural industry; discusses farming procedures over the radio, and writes many letters on the more specific problems of agriculture at the request of farmers, members of garden clubs, and of fertilizer fungicide, and insecticide manufacturers. It takes part in many of the administrative functions of the College.

## COOPERATIVE AGRICULTURAL EXTENSION WORK

Dr. I. O. Schaub, Director

JOHN W. GOODMAN, Assistant Director DR. JANE S. MCKIMMON, Assistant Director RUTH CURRENT, State Home Demonstration Agent

Support.—The Agricultural Extension Service of State College is conducted coöperatively with the United States Department of Agriculture and the one hundred counties of the State. The work is supported by Federal funds derived from the Smith-Lever Act of 1914, the Capper-Ketcham Act of 1928, and the Bankhead-Jones Act of 1935, from State appropriations and county appropriations. The Federal and State appropriations are used to maintain an administrative and specialist staff, and to supplement salaries and travel expenses of county Extension agents.

Purpose.—The purpose of the Extension Service is to teach by demonstration. In carrying out this purpose, the College maintains a staff of trained specialists, a system of county agents and assistant agents, and a corps of home-demonstration agents. Instruction is given at group meetings by method and result demonstrations and by the written word by training leaders, and through organized effort with clubs of men, women, and young people. In all of these activities, the plan is to carry to the rural people of North Carolina the latest and best information obtainable for the building of a more prosperous and satisfying life on the farm. The Extension Service holds a number of short courses, both on the College campus and elsewhere over the State, that the greatest number of rural leaders may be trained for building better homes and better farms, in the use of more efficient practices, thus creating a more satisfying way of life.

### THE SCHOOL OF ENGINEERING

BLAKE R. VAN LEER, M.E., Dean of Engineering

WALLACE C. RIDDICK, C.E., LL.D., Dean Emeritus of Engineering WILLIAM L. MAYER, M.S., Director of Registration

### Organization

The School of Engineering of the North Carolina State College of Agriculture and Engineering of the University of North Carolina is organized for purposes of administration into the following Departments:

### Line Departments

	Administrative Officer
Architectural Engineering	Professor Ross Shumaker
Ceramic Engineering	PROFESSOR A. F. GREAVES-WALKER
Chemical Engineering	PROFESSOR E. E. RANDOLPH
Civil Engineering	PROFESSOR C. L. MANN
Electrical Engineering	PROFESSOR WILLIAM HAND BROWNE, JR.
General Engineering	PROFESSOR G. WALLACE SMITH
Geological Engineering	Professor J. L. Stuckey
Industrial Engineering	PROFESSOR H. B. SHAW
Mechanical Engineering	PROFESSOR L. L. VAUGHAN

## Service Departments

Engineering Experiment Station	PROFESSOR HARRY TUCKER
Engineering Mechanics	
	PROFESSOR H. A. FISHER
Physics	PROFESSOR C. M. HECK
Pilots Training Dept.	DIRECTOR L. R. PARKINSON

The School of Engineering is organized to offer technical and professional engineering instruction on the higher levels, graduate and undergraduate, vocational and professional, to meet the needs of the people of North Carolina. It is also organized and equipped to conduct research in the basic fundamentals of Engineering, and it cooperates with the College Extension Division in offering extension courses in Engineering and its allied fields.

Effective July 1, 1938, the consolidation of Engineering instruction at the University Unit in Raleigh was consummated, and the instructional staff and laboratory facilities were enhanced by additions from the Engineering College formerly maintained by the Unit at Chapel Hill. This gives the School of Engineering in Raleigh the largest and most extensive engineering staff and equipment in this section of the country, and offers to the young men of North Carolina excellent facilities for securing an undergraduate education in Engineering.

The excellence of the instruction in the School of Engineering is attested by the fact that the Engineers' Council for Professional Development has accredited its curricula in Ceramic, Civil, Electrical, and Mechanical Engineering. It is the policy of the School of Engineering to have all of its curricula meet the standards of this nationally recognized accrediting agency. Engineering education requires extensive laboratory facilities, and as rapidly as funds are available all of its laboratories are being brought into shape to meet the highest standards attained in any technological institution of higher learning.

## Location and Facilities

Raleigh is a particularly favorable place for the study of Engineering. It is not only the State Capital where are located many State Departments of interest to engineers, such as the State Highway Commission, State Board of Health, State Geologist, Department of Conservation and Development, and other important State institutions, but it is a rapidly growing city marked by modern developments in residential, commercial, and municipal construction. The local building and engineering go on the year round and afford excellent opportunities for observation and study. Raleigh is also so situated geographically that it is within easy distance for inspection trips to commercial chemical works, woodworking mills, railway shops, machine shops, airports, and manufacturing industries.

Raleigh is also a center from which electric power is distributed to a large section of the State. A transformer and meter substation adjoins the campus, and from it high-tension lines radiate in four directions. Hydro-electric and steam-electric plants on the Cape Fear River are within easy reach. The important systems of highways centering in Raleigh are exceptionally valuable for the observation and study of the construction, use, and maintenance of roads.

On the State College campus are five large buildings devoted exclusively to engineering instruction and research. These buildings contain much laboratory equipment which can be inspected at any time, but is best seen during the Engineers' Fair, which is held each year in March or April.

# Purposes of the School

The purposes of the School of Engineering are: to educate men for professional service in Aeronautical, Architectural, Ceramic, Chemical, Civil, Construction, Electrical, Geological, Highway, Industrial, Mechanical, and Sanitary Engineering; to equip them to participate in commercial and public affairs; to develop their capacities for intelligent leadership; to aid in the development of commerce and industry through research and experimentation, to investigate natural resources and demonstrate their value to the people of the State; to coöperate with private companies, municipalities, public authorities, and commercial and industrial organizations through scientific research, thus increasing technical skill, improving the value of manufactured products, and eliminating waste.

## Occupations Open to Graduates

Those who graduate and receive a bachelor's degree in some specialized branch of engineering are equipped to assume at once the duties and responsibilities usually given Junior Engineers. The graduates of the School of Engineering are found in many technical fields, but most of them find employment in some one of the following: Aviation, Architectural and Structural Engineering, the Ceramic Industries, the Chemical Industries, Private Professional Practice, Consulting Engineers, Hydroelectric Engineering, Electrical Manufacturing, Contracting, Central Electric Station Design and Construction, Telephone Service, Maintenance and Operation of Electrically-driven Mill Equipment, Lighting, Illumination, and Railway Signaling; Construction, Maintenance, and Operation of Steam and Electrical Railways, the Design and Manufacture of Machinery, the Operation of Shops, and the Furniture Industry; Geological Engineering, Highway Engineering, Industrial Engineering, and the Management of Industries, Municipal Engineering, Sanitary Engineering, and as City Managers, Public Utility and Health Service Officials; Sales Engineering, Research Engineering.

### Curricula

Besides a curriculum leading to the Bachelor's degree in General Engineering the School of Engineering offers curricula which lead to the Bachelor's degree in the following specialized fields of Engineering:

Architectural Engineering
Architecture
Ceramic Engineering
Chemical Engineering
Civil Engineering, with options in:

- (a) Construction
- (b) General Civil
- (c) Highway
- (d) Sanitary

Electrical Engineering, with options in:

- (a) Power Generation and Distribution
- (b) Electrical Communication

Geological Engineering Industrial Engineering

Mechanical Engineering, with options in:

- (a) Aeronautical Engineering
- (b) Furniture Manufacturing
- (c) Heating and Air Conditioning

All of the curricula contain courses of general educational value which prepare students for the duties of citizenship in a democracy. However, the curricula are primarily technical and practical, and designed to prepare young men for professional practice and for definite vocations as well as for leadership in the industrial advancement of the State.

The instruction is such as will foster the individual talent, imagination, and initiative of students, and instill in them ideals of accomplishment, service, and good citizenship, while assuring to them that scientific education and practical training which will prepare them for professional service and leadership in engineering and in industry. In this way the School of Engineering aids in the advancement of commerce and industry and furthers the development and economic utilization of the State's resources for the general welfare.

All the engineering curricula emphasize thoroughness in the study of English and of the sciences—Mathematics, Physics, and Chemistry—with a thorough drill in the application of fundamental principles to engineering and industrial problems. Engineering is taught as a profession, and the students come to realize that it is both honorable and learned, and that it offers exceptional opportunities for service.

The several engineering curricula have a common freshman year and differ only slightly in the sophomore year, in which years the students study English, Mathematics, Drawing, Shopwork, Physics, and Chemistry. In the junior and senior years the students are directed definitely to the professional aims in carefully considered and well-balanced curricula.

Summer Work.—At least six weeks of summer employment, approved by the Head of the Department in which the student is enrolled, preferably in the summer following the junior year, is a specific requirement for graduation in Engineering.

The purpose of this is to have every student before graduation acquire the valuable experience of actual work with responsibility and pay in the field of his vocation. Departmental advisers will aid students in getting summer employment.

Inspection Trips.—In order to familiarize himself with the practice of his profession, each senior in Engineering is required as a part of his curriculum to take the departmental inspection trips. None will be excused except for grave reasons.

These inspection trips are arranged by the Head of the Department in which the student takes his major work. The cost of such trips vary from \$25.00 to \$60.00 per student, depending on the time and distance traveled.

Degrees.—Six different types of degrees may be secured through the School of Engineering. These are:

1. Bachelor of Science (B.S.). This degree can be obtained only through completion of the curriculum in General Engineering. This is a course of study founded upon the basic fundamentals of engineering with no specialized courses but with liberal allowances for electives in the cultural courses. It is an earned undergraduate degree and can be secured by four years of undergraduate work.

- 2. Bachelor of a Specialized Branch of Engineering, for example, (B.C.E.) Bachelor of Civil Engineering. This is an earned undergraduate degree which includes in the last two years some specialized courses in the particular branch of engineering in which the student is studying. This course is planned for four years of study but due to the fact that it is very heavy and difficult only the very best prepared and most diligent students can successfully complete it in four years.
- 3. Master of Science (M.S.) in a specialized branch of engineering. This is an earned graduate degree which can be obtained only after the Bachelor's degree. It requires at least one year of graduate work, a reading knowledge of at least one foreign language, and a thesis showing ability to pursue independent research. The core of graduate courses taken must emphasize a scientific objective. Further information concerning the requirements for this degree may be obtained by addressing Dr. R. F. Poole, Chairman, Graduate Committee, State College, Raleigh.
- 4. Master of a Specialized Branch of Engineering, for example, (M.C.E.) Master of Civil Engineering. This is an earned graduate degree which can be obtained only after the specialized Bachelor's degree and requires one year of graduate work which emphasizes the technical and specialized professional engineering courses, and a thesis along professional engineering lines indicating ability to carry on independent professional investigations. For further information concerning this degree address Dr. R. F. Poole, Chairman, Graduate Committee, State College, Raleigh, N. C.
- 5. The Professional degree, for example, Architectural Engineer, Ceramic Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, etc.

This is an earned professional degree which is conferred only upon the graduates of some branch of the University of North Carolina, after five years of professional engineering practice in responsible charge of important work, the acceptance of a thesis on a subject related to the professional engineering practice in which the applicant is engaged, and the passing of an examination upon the candidate's professional experience. For further information concerning this degree address Dr. R. F. Poole, Chairman, Graduate Committee, State College, Raleigh.

6. The Honorary Degree of Doctor of Engineering, (D.Eng.) This degree is purely an honorary degree conferred upon men of extraordinary high professional engineering attainments who are graduates of one of the branches of the University of North Carolina or professional engineers who have rendered distinguished services to the State of North Carolina.

Graduation.—The requirements for graduation in a specialized branch of Engineering are the satisfactory completion of all the courses in one of the prescribed curricula (see tabulations of curricula on the pages following), a total of not less than 240 term credits, with not less than 240 honor points.

Of the minimum of 240 term credits required for graduation in Engineering, 117 are common to all curricula: 30 term credits in Mathematics, 18 in Language, 9 in Economics, 12 in Chemistry, 12 in Physics, 9 in Mechanics, 9 in Drawing and Descriptive Geometry, 12 in Military Training and 6 in Hygiene and Physical Education.

Each of the curricula permits election of at least 18 term credits and contains not more than 72 special technical term credits.

Graduates in Liberal Arts.—An increasing number of graduates of liberal-arts colleges and universities are seeking an engineering degree. The policy of the School of Engineering is to allow as liberal an arrangement of courses as possible to suit the individual student's needs so that the degree in engineering may be obtained in the briefest time possible. However, the liberal-arts courses are distinctly different from those offered in an engineering school even when they have the same name and deal with the same subject matter. Students are therefore advised that the best economy of their time and money will be attained if they enroll at the beginning of their college careers as freshmen in an engineering curriculum.

A graduate with an A.B. degree will normally require two years additional work to secure a Bachelor's degree in engineering.

A graduate with a B.S. degree may secure a degree in engineering with from one to two years of additional study. A final decision in each case can be made only after an evaluation of the transcript of the student's record in the college from which he has received his degree.

Short Courses: Institutes.—The School of Engineering coöperates with the College Extension Division in offering short courses and institutes for adults and graduate engineers. These courses vary in length from one day to one week, and each year the courses covered are different and vary according to the public demand. The faculty of the School of Engineering usually furnishes a large portion of the instruction offered in these courses, which in the past have been for Electrical Metermen, Gas Plant Operators, Waterworks Operators, Heating and Plumbing Contractors, Surveyors, Engineers. These short courses are usually held at Raleigh because the School of Engineering has unusual laboratory and classroom facilities which offer a decided advantage to those who desire to "brush up on" their specialty and bring themselves abreast of the times by attending such short courses. For information concerning any short course in which a reader may be interested, he is requested to address his inquiry to Mr. Edward Ruggles, Director, Extension Division, State College, Raleigh, N. C.

Admission: Advanced Standing.—Regulations for admission and advanced standing are stated under Information for Applicants.

## SERVICE DEPARTMENTS

An explanation of the purposes, and a listing of the personnel engaged in the five Service Departments in the School of Engineering follows.

### ENGINEERING MECHANICS

Professor G. Wallace Smith, Head of the Department

Associate Professor N. W. Conner; Assistant Professor C. E. Feltner; Instructor J. T. Massey; Teaching Fellows L. R. Crane, G. A. Gillenwater, J. F. Gilmore.

The Department of Engineering Mechanics which is housed in the Civil Engineering Building, teaches and administers the courses in theoretical and applied mechanics, strength of materials and fluid mechanics. These courses have been grouped under an independent department, which is the custom in most large engineering schools, for two reasons: first, to economize by preventing duplications and overlapping; second, because the mechanics courses are basic, required courses in all the engineering curricula, and here all engineering students meet on an equal footing of competition for survival. The best and most uniform results are thus obtained when such courses are taught in a department completely separated from the bias of any particular type of specialization.

#### THE DEPARTMENT OF MATHEMATICS

Professor H. A. Fisher, Head of the Department

Associate Professors H. P. Williams, C. G. Mumford, J. M. Clarkson, J. W. Cell, R. C. Bullock, J. Levine; Assistant Professors F. A. Lee, L. S. Winton, H. V. Park; Instructors H. M. Nahikian, D. B. Thomas, W. P. Seagraves, F. E. Mask.

Mathematics is one of the basic sciences in Engineering. At State College the large and competent Mathematics department teaches the subject not only as a science and cultural subject but gives also a large amount of drill and practice to the students so that upon completion of the courses the students not only know the subject matter but are skilled and rapid in its use when applied to the problems of technology.

After July 1, 1940, the Mathematics Department will be adequately housed in one building (Tompkins Hall) for the first time in its history.

### THE PHYSICS DEPARTMENT

Professor C. M. Heck, Head of the Department

Professor J. B. Derieux; Associate Professor J. S. Meares; Assistant Professors F. W. Lancaster, R. F. Stainback; Instructors G. W. Bartlett, G. E. Crouch, K. G. Carroll.

Physics is another of the basic sciences upon which Engineering is founded.

Facilities.—The Department of Physics occupies the northern half of Daniels Hall—three floors, with six laboratories and six lecture rooms. The basement is devoted to research laboratories, shops, dark rooms, battery room,

and power center. The two floors above comprise laboratories, lecture rooms, offices, and apparatus rooms.

Equipment.—The Department is equipped with laboratory apparatus in a sufficient number of sets to permit all students in a laboratory to work during the same period on the same experiment. All lectures are demonstrated with a large assortment of equipment and apparatus collected through many years.

On the roof of the building is located the astronomical observatory and the research radio laboratory. The five-inch telescope is equatorially mounted and driven by clock work.

The Department is equipped for research so that engineering students desirous of using Physics as a minor in their work for an advanced degree may do so.

# PILOTS TRAINING SCHOOL

In coöperation with the Civil Aeronautics Authority, the National Youth Administration, and Serv-Air Inc., the School of Engineering is offering to young men between the ages of 18 and 25 an opportunity to become licensed pilots and mechanics.

Students wishing to receive flying instruction must pass a physical examination comparable to the standards required by the U. S. Army Air Corps.

It is necessary that all flying students attend the ground-school course being offered. Navigation, meterology, and the Civil Air Regulations are the subjects which must be mastered before the student may obtain a private flying license. Approximately 2½ hours of ground instruction to every hour in the air is required. The instruction during the 35 hours of flying is of prime importance; and to insure the best results, each student who has soloed will receive 30 minutes of check instruction for each hour of solo flying.

Those students who successfully complete the flight training course and secure a Private Pilot's Certificate may apply for advanced instruction. The ground instruction required for the advanced course includes Navigation, Meterology, Parachutes, Aerodynamics and Aircraft, Engines, Instruments, and Radio. Forty to fifty hours of advanced flight instruction is given in high powered aircraft. It includes advanced maneuvers and aerobatic work. In the advanced course, approximately 3½ hours of ground instruction to every hour in the air is required.

For detailed information, inquiries should be addressed to Professor L. R. Parkinson, Page Hall, North Carolina State College, Raleigh.

### THE ENGINEERING EXPERIMENT STATION

PROFESSOR HARRY TUCKER, B.A., B.S., C.E., Director Room 207, Civil Engineering Building, State College Station, Raleigh.

Establishment.—The Engineering Experiment Station of State College was established in 1923, as provided by the General Assembly of that year. It is an integral part of the School of Engineering, and is engaged in an organized program of research consisting of individual projects carefully defined and approved, which are carried on by engineering teachers. The Station fits uniquely into the program of instruction, research, and extension of State College.

Purpose.—The efforts of the Engineering Experiment Station are directed along the following lines:

- (a) The investigation of resources and processes, through experimentation and tests, with the object of opening and developing wider fields for the use of the natural resources of the State.
- (b) Coöperation with industrial organizations in the solution of technical problems, which require such facilities and equipment as are available at State College.
  - (c) The coördination of research undertaken by the Engineering School.
- (d) The publication of the results of experimental and research projects made by the Engineering Experiment Station and the several Engineering Departments of State College.

Publications.—The Experiment Station has, since its organization, coöperated with various organizations and industries in the State in the investigation of problems peculiar to North Carolina. The results of such investigations have, from time to time, been issued in the form of Bulletins. The following is at present a complete list of the publications of the Station.

- Bulletin No. 1. "County Roads: Organization, Construction and Maintenance" by Harry Tucker, James Fontaine, and L. D. Bell.
- Bulletin No. 2. "Tests of Face and Common Brick Manufactured in North Carolina" by A. F. Greaves-Walker and James Fontaine.
- Bulletin No. 3. "Poles from North Carolina Forests" by Wm. Hand Browne, Jr., and James Fontaine.
- Bulletin No. 4. "Motor Vehicle Accidents in North Carolina" by Harry Tucker.
- Bulletin No. 5. "Occurrence and Physical Properties of North Carolina Marble" by Jasper L. Stuckey and James Fontaine. Price twenty cents.
- Bulletin No. 6. "The Occurrence, Properties, and Uses of the Commercial Clays and Shales of North Carolina" by A. F. Greaves-Walker, N. H. Stolte, and W. L. Fabianic. Price fifty cents.
- Bulletin No. 7. "Highway Grades and Motor Vehicle Costs" by Howard Burton Shaw and James Fontaine. Price twenty cents.

- Bulletin No. 8. "Financial Management for Highways" by Marc C. Leager. Price one dollar.
- Bulletin No. 9. "Highway Accidents in North Carolina and Guides to Safety" by Harry Tucker. Price fifty cents.
- Bulletin No. 10. "North Carolina Building Code" by the North Carolina Building Code Council. Price one dollar.
- Bulletin No. 11. "The Production of an Insulating Brick Using North Carolina Shales" by A. F. Greaves-Walker, W. C. Cole, Jr., and S. C. Davis. Price twenty cents.
- Bulletin No. 12. "The Development of Pyrophyllite Refractories and Refractory Cements" by A. F. Greaves-Walker, C. W. Owens, Jr., T. L. Hurst, and R. L. Stone. Price fifty cents.
- Bulletin No. 13. "The Preparation of Concrete Using North Carolina Materials" by Harry Tucker and W. G. Geile.
- Bulletin No. 14. "The Location and Distribution of the Ceramic Mineral Deposits of North Carolina" by A. F. Greaves-Walker and S. G. Riggs, Jr. Price twenty-five cents.
- Bulletin No. 15. "A Study of Courses in Technical Writing" by A. M. Fountain. Price one dollar.
- Bulletin No. 16. "The Production of Unfired and Fired Forsterite Refractories from North Carolina Dunites" by A. F. Greaves-Walker and R. L. Stone. Price fifty cents.
- Bulletin No. 17. "Papers Presented at School for Street Superintendents" compiled by Harry Tucker.
- Bulletin No. 18. "Net Revenue Method of Comparing Distribution Transformers" by R. R. Brown.
- Bulletin No. 19. "The Origin, Mineralogy and Distribution of the Refractory Clays of the United States" by A. F. Greaves-Walker.

Current Activities.—The Experiment Station is now assisting in the following investigations that are being conducted by the several Departments of the Engineering School:

- 1. The development of an unfired aluminous refractory from pyrophyllite.
- 2. In coöperation with the North Carolina State Highway and Public Works Commission: The load distribution on highway bridge floors.
- 3. In cooperation with the Rural Electrification Administration: Permissible motor loads on rural lines.
- 4. The geology of Wake County, North Carolina, with particular reference to the extent and value of the soapstone deposits.
- 5. Drafting-room practices in North Carolina, with the objective of standardizing the preparation of drawings.
- 6. In coöperation with the Department of Chemistry of the College: The relation of Vitamin A to night blindness.
- 7. In coöperation with the North Carolina State Board of Health: Investigations in the Efficiency of Filters For Small Sewage Treatment Plants.

### CURRICULA OFFERED IN THE SCHOOL OF ENGINEERING

Each of the following curricula is not only well balanced, but offers a liberal course of study in a technical and professional field. They conform to what is regarded by engineering educators as the best modern practice.

Also offered in the School of Engineering is a curriculum leading to the Bachelor of Science degree in Engineering (see page 114). This curriculum has no specialization and requires but 231 term credits with at least 231 honor points. It is recommended to those who desire a broad general training in the basic principles of Engineering but who do not have the time or desire to specialize in some particular branch.

### FRESHMAN YEAR of ALL CURRICULA in ENGINEERING

		CREDITS	
Courses	First Term	Second Term	Third Term
Algebra, Trigonometry, Analytical Geometry,			
Math. 101, 102, 103	6	6	6
Composition, Eng. 101, 102, 103	3	3	3
General Inorganic Chemistry, Chem. 101, 102, 103	4	4	4
Engineering Drawing II, M.E. 105, 106	3	3	0
Descriptive Geometry, M.E. 107	0	0	3
Military Science I, Mil. 101, 102, 103, or			
World History, Hist. 104		2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	3 1	1	1
		_	-
	19	19	19

Summer requirement following the freshman year in Architectural, Ceramic, and Electrical Engineering:—Surveying, C.E. s200, 3 credits.

### ARCHITECTURE AND ARCHITECTURAL ENGINEERING

Professor Ross Shumaker, Head of Department

Associate Professor J. D. Paulson; Assistant Professor J. M. Edwards, Jr.; Instructors: H. R. McLawhorn, Jr., F. C. Williams.

The courses in Architecture and Architectural Engineering have been arranged after careful study of the best curricula offered by the finest educational institutions in the United States. These studies and many years of practical experience on the part of the faculty, both in the profession and in teaching, enable this department to offer two allied courses of merit, proved by the very high proportion of graduates of this department who successfully follow the profession of Architect.

The first three years of study in Architecture and in Architectural Engineering are very similar—so arranged that a student may transfer from one curriculum to the other up to the end of the junior year, with a minimum loss of credits. After the third year, however, there is a wide divergence in the courses.

Architecture is one of the most valuable and constructive professions in modern civilization. While an art, it must be firmly rooted in science, and the greater the project, the more positively this is true. Consequently, a student who is ambitious to be a great architect must master the artistic scope of architecture and also such science as is pertinent. To compress such a course into four years would necessarily eliminate some essential studies, or reduce the content of all. Therefore the curriculum in Architecture is presented as a five year course of study.

Architectural Engineering is designed to prepare students for the pursuit of engineering as allied with architecture. Modern architecture has so many engineering aspects, in the way of construction, fabrication and use of materials, provision of conveniences, and so forth, that a student may well plan to specialize in some one of these many fields. This four year course provides a thorough training in the theoretical engineering of architecture and a sufficient knowledge of architecture as an art to enable the graduate to pursue any specialized branch he may select. Also it is possible for him to continue in the field of architecture and eventually secure registration as a licensed architect.

Equipment.—The Department of Architecture and Architectural Engineering occupies the third floor of Daniels Hall, an excellent location providing adequate space in well-lighted and comfortable rooms. Large drawing rooms, library, lecture rooms, photographic dark room, offices, and so forth, overlooking the entire State College Campus constitute an ideal physical layout for the department. Drawing tables, stools, lockers, and essential furniture are all provided.

Alumni.—Graduates of this department have little difficulty in normal times in finding employment and experience such that in a few years they can obtain registration as licensed architects. Many graduates have been conspicuously successful and it is worthy of note that a very large proportion remain in the state of North Carolina or adjacent territory.

### CURRICULUM IN ARCHITECTURE

## Freshman or First Year

		CREDITS	
Courses	First Term	Second Term	
Mathematics 101, 102, 103 Composition, Eng. 101, 102, 103	6 3	6 3	6
French or Modern Language, M. L.		•	o
101, 102, 201, or Equiv.	3	3	3
Pencil Sketching, Arch. 100	1	1	1
World History, Hist. 104	2	2	2
Architectural Drawing, Arch. 107	3	3	0
(or M. E. Equivalent) Descriptive Geometry, M. E. 107	0	ő	3
Military Science I, Mil. 101, 102, 103 (or elective?)	2	2	2
Fundamental Activities and Hygiene, P. E. 101, 102,	103 1	1	1
Freshman or First YearSummer Requirement: Surveying, C. E. s200, 3 o	21 credits.	21	21
Sophomore or Secon	d Year		
Calculus I, II, and III, Math. 201, 202, 303	4	4	4
Background for Modern Thought (or Elective)	3	3	3
Background for Modern Thought (or Elective) Physics for Engineers, Phys. 201, 202, 203	4	4	0
Shades and Shadows, Arch. 205	2	0	0
Shades and Shadows, Arch. 205 Engineering Mechanics, E. M. 301, 302 Elements of Architecture I, II, III, Arch. 201, 202, 203	0 3 3	3 3	3
History of Sculpture and Mural Decoration, Arch. 325	0	ő	3 2 2 0
Working Drawings, Arch. 305	0	Ö	2
Perspective Drawing, Arch. 206 Military Science II, Mil. 201, 202, 203 (or elective) Sport Activities, P. E. 201, 202, 203	1	0	0
Military Science II, Mil. 201, 202, 203 (or elective)	2	2	2
Sport Activities, P. E. 201, 202, 203	1	1	1
Sophomore or Second Year	20	20	20
Junior or Third	Year		
Business English, Pub. Speaking,			
Literature (or M. L.)	3	3	3
Strength of Materials, E. M. 321, 322	0	3	3
Materials Testing Laboratory, H. E. 322  Materials of Construction, C. E. 321	0	1	0
Sanitary and Mech. Equip. of Buildings, C. E. 364	3	0	0
Freehand Drawing 1, 2, 3, Arch. 101, 102, 103	2	2	2
Architectural Office Practice, Arch. 411, 412	0	3	3
Intermediate Design, B-1, B-2, B-3,	_		
Arch. 301, 302, 303		3	3
History of Architecture 1, 2, 3, Arch. 321, 322, 323	3 3	3 3	3 3
Junior or Third Year Summer Requirement: Six Weeks Industrial Emp	20 ployment.	21	20
Senior or Fourth Year			
General Economics, Econ. 201, 202, 203	3	3	3
Graphic Statics, C. F. 423, 424, 425	3 1	3 1	0 1
Reinforced Concrete, C. E. 421, 422 Graphic Statics, C. E. 423, 424, 425 Electric Equipment of Buildings, E. E. 343	0	Ô	ŝ
Architectural Design B-4, B-5, B-6,			
Arch. 353, 354, 355	6	6	6
History of Architecture 4, Arch. 421 Building Materials, Arch. 409	3	0 3	0
Professional Practice, Arch. 414	0	ő	1
Professional Practice, Arch. 414 Clay Modeling, Arch. 114	1	1	1
Photographic Practice, Arch. 304	0	0	1
**Electives	3	3	3
Senior or Fourth Year	20	20	19

† Or six credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology.

\*\* To be selected from the following fields: Humanities, military science III and IV, language and literature, pure mathematics, pure natural science, and social science.

## Professional or Fifth Year

Courses	First Term	CREDITS Second Term	Third Term
Business Law, Econ. 307	3	0	0
Specifications, Arch. 416	0	Ó	3
Theory of Structures, C. E. 431a, 432a	3	3	Ö
Architectural Design A-1, A-2, A-3,			
Arch. 401, 402, 403		6	6
Freehand Drawing 4, 5, 6, Arch. 211, 212, 213		3	3
Architectural Composition, Arch. 407		0	0
City Planning, Arch. 415	0	2	0
Architectural Estimates, Arch. 408	0	0	2
**Electives	3	6	6
Fifth Year	20	20	20

Total Credits: 306. Completion of the course to be recognized by granting the degree of Bachelor of Architecture.

All seniors will be required to go on the inspection trip as part of their curriculum.

<sup>\*\*</sup> To be selected from the following fields: Humanities, military science III and IV, language and literature, pure mathematics, pure natural science, and social science.

## CURRICULUM IN ARCHITECTURAL ENGINEERING

### Freshman Year

For the freshman year, refer to page 94. Surveying, C.E. s200, 3 credits, is required in the summer immediately following the freshman year.

## Sophomore Year

	D:	CREDITS	Think Town
Courses Calculus I, II, III, Math. 201, 202, 203		Second Term	Third Term
*Business English, Public Speaking and English	07	*	
American Literature, Eng. 211, 231, (261 or 262	or		
263) or (265 or 266 or 267)	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Mechanics, E.M. 311, 312		3	3
Elements of Architecture I, II, III, Arch. 201, 202, 203 Shades and Shadows, Arch. 205		ő	0
Pencil Sketching, Arch. 100		1	1
Perspective Drawing, Arch. 206		ō	ō
Military Science II. Mil. 201, 202, 203 (or elective)	2	2	2
Sport Activities, P. E. 201, 202, 203	1	1	1
			-
Sophomore Year	21	21	21
Junior Year			
Engineering Mechanics, E. M. 313	3	0	0
Strength of Materials, E. M. 321, 322	0	3	3
Materials Testing Laboratory, H. E. 322		1	0
Materials of Construction, C. E. 321	0	0	3
Sanitary and Mech. Equipment of Buildings,	3	3	0
C. E. 365, 366		3	3
Freehand Drawing 1, 2, 3, Arch. 101, 102, 103		2	2
Photographic Practice, Arch. 304		ō	ī
Intermediate Design R-1 R-2 R-3			
Arch. 301, 302, 303	3	3	3
History of Architecture 1, 2, 3, Arch. 321, 322, 323	3	3	3
**Electives	3	3	8
Junior Year	20	21	21
Summer Requirement: Six weeks industrial empl			
Senior Year			
D : 4 1 G O E 401 400	3	3	0
Reinforced Concrete, C. E. 421, 422Graphic Statics, C. E. 423, 424, 425	1	1	ĭ
Theory of Structures, C. E. 423, 424, 423	3	3	ô
Specifications, Arch. 416		ő	3
Building Materials I, Arch. 409	0	3	0
Electrical Equipment of Buildings, E. E. 343	0	0	3
Business Law, Econ. 307	3	0	0 3 0 0 2 3 2 3
Architectural Design, E-1, E-2, Arch. 351, 352	3 2	3 2	9
Architectural Office Practice, Arch. 411, 412		3	3
History of Sculpture and Mural Decoration, Arch. 325	0	ő	2
**Electives		3	3
Senior Year	18	21	19

Total credits required for completion of course: 243. Degree: Bachelor of Architectural Engineering.

All seniors will be required to go on the inspection trip as part of their curriculum.

<sup>\*</sup>Students who have been certified by the Department of English as proficient in English may substitute for the course listed French, M. L. 101.
† Or six credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology.
\*\*To be selected from the following fields: Humanities, military science III and IV, language and literature, pure mathematics, pure natural science, and social science.

### CERAMIC ENGINEERING

Professor A. F. Greaves-Walker, Head of the Department Instructor W. W. Kriegel; Teaching Fellow J. J. Amero.

The Department of Ceramic Engineering occupies its own building, which contains classrooms, a design room, a chemical laboratory, an equipment laboratory, and a kiln laboratory.

The Equipment Laboratory contains an adequate variety of machines for preparing and processing ceramic bodies of all kinds and making ceramic products on a laboratory scale. It also contains the necessary equipment for carrying on ceramic research and the testing of materials and products.

The Kiln Laboratory contains eleven kilns and furnaces of different types which provide for the firing or testing of all ceramic materials and products.

Ceramic Engineering includes the different phases of engineering which have to do with the study of the non-metallic minerals, except fuels and ores as such, and the manufacture of products therefrom. The non-metallic minerals compose over 90 per cent of the earth's surface, and the industries based on them rank above the automobile, and the iron and steel industries in value of product. Principal among these products are those made of clay and associated minerals, such as building brick, hollow tile, sewer pipe, refractories, wall and floor tile, tableware, pottery, electrical porcelain, chemical and sanitary stoneware, flat glass, chemical and table glassware, enameled iron and steel, Portland and hydraulic cements, and limes.

North Carolina has enormous deposits of shale, clay, kaolin, feldspar, sand, limestone, and other ceramic minerals, equal in quality to any others in the United States, and with the introduction of modern processes and methods will produce in future quantities of ceramic products and adequately develop its ceramic industries.

The demand for ceramic engineers has far exceeded the supply for a number of years past, there being fewer than 100 ceramic engineers graduated in the United States each year. It is with the idea of supplying this demand and developing the latent resources of North Carolina that a four-year curriculum in Ceramic Engineering, leading to the degree of Bachelor of Ceramic Engineering, is offered.

The instruction in Ceramic Engineering is enriched by the intensive investigation of ceramic resources and manufactures constantly under way in connection with the Engineering Experiment Station. Students will have the great advantage of these investigations along with their other instruction.

Courses in advanced subjects for graduate students are offered in Advanced Refractories and Furnaces, Industrial Adaptability of Clays, Designing of Ceramic Equipment and Plants, Advanced Silicate Technology, Glass Technology, and Ceramic Research.

The curriculum in Ceramic Engineering, which has been accredited by the Engineers Council for Professional Development, contains fundamental courses, and courses in Ceramic, Geological, Civil, Electrical, and Mechanical Engineering, as well as in Economics, to provide for the general training in engineering with the particular study of Ceramic Engineering. The Ceramic Engineering courses consist of the theoretical and practical study of the mining, manufacturing, and testing of ceramic materials and products as well as the design of ceramic equipment and plants.

Graduates in Ceramic Engineering are employed in the ceramic industries as plant executives, research engineers, plant-control engineers, sales engineers, product-control engineers, plant designers and constructors, equipment manufacturers, consulting engineers and ceramic chemists and technologists. Graduates of the Department at State College, which now ranks fourth in registration in the United States, are successfully holding positions in all of these branches.

# CURRICULUM IN CERAMIC ENGINEERING

## Freshman Year

For the freshman year, refer to page 94. Surveying, C.E. s200, 3 credits, is required in the summer immediately following the freshman year.

## Sophomore Year

		CREDITS	
Tr.			Third Term
	t Term	Second Term	4
Calculus I, II, III, Math. 201, 202, 303	4	4	0
Qualitative Analysis Chem. 211	4	0	ŏ
Quantitative Analysis, Chem. 212	0	4	4
Physics for Engineers, Phys. 201, 202, 203	4	4	
Engineering Geology, Geol. 220	3	0	0
Minerology, Geol. 230	0	0	3
*Rusiness English, Public Speaking, and English			
Literature, Eng. 211, 231, 261	3	3	3
Ceramic Materials, Cer.E. 102	0	3	0
Ceramic and Mining Processes, Cer.E. 103	0	0	3
tMilitary Science II. Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
Sport 1101111000, 2 121 201, 000, 000			
	21	21	20
Junior Year			
	3	3	0
Engineering Mechanics, E.M. 301, 302	ŏ	ő	3
Strength of Materials, E.M. 321	3	3	3
General Economics, Econ. 201, 202, 203	0	2	2
Mechanical Drawing, M.E. 211, 212		ő	õ
Drying Fundamentals and Practice, Cer.E. 201	3		ŏ
Firing Fundamentals and Practice, Cer. E. 252	0	3	3
Ceramic Calculations, Cer.E. 253	0	0	3
Ceramic Products. Cer.E. 203	0	0	0
Engineering Thermodynamics I. M.E. 305, 305	3	3	
Mechanical Engineering Laboratory I, M.E. 311, 312	1	1	0 1
Materials Testing Laboratory, H.E. 332	0	0	
Thermal Mineralogy, Geol. 238	0	3	0
Physical Chemistry Chem 231	5	0	0
Rusiness Law. Econ. 307	0	0	3
Electives	3	3	3
	21	21	21
Summer requirements: six weeks industrial employment			
Senior Year			
Refractories, Cer.E. 403	0	0	3
Ciliantes I and II Cer E. 303. 304	3	3	0
Ceramic Laboratory, Cer.E. 311, 312, 313	3	3	3
Coronia Designing Car E 214 215	ō	4	4
Ceramic Designing, Cer.E. 314, 315	i	0	0
Technical Writing I, Eng. 321	3	Ō	0
Elements of Electrical Engineering I, E.E. 321, 322	ŏ	3	3 0
Strength of Materials, E.M. 322	3	Ō	0
Optical Mineralogy, Geol. 431, 432, 433	3	3	3
Electives	3	3	3
Fiectives	_		

All seniors are required to go on the inspection trip as part of their curriculum.

3 19

Modern Language, Sociology.

<sup>\*</sup> Students who have been certified by the Department of English as proficient in English may - students who have been certified by the Department of English as projected in English hay substitute for the courses listed Elementary German, M.L. 102.

† Or 6 credits in one or two of the following departments: Economics, Psychology, History,

### CHEMICAL ENGINEERING

Professor E. E. Randolph, Head of the Department

Associate Professor B. E. Lauer; Assistant Professors F. C. Johnson, W. A. Bain; Instructor T. C. Doody; Teaching Fellows L. F. Drum, J. F. Seely.

Facilities.—The laboratories of the Department of Chemical Engineering are located in Winston Hall. The available space has been divided into an exhibit room; Water and Engineering-Materials Laboratory; Electrochemical Engineering Laboratory; Fuel- and Gas-Technology Room; Oil and Hydrogenation Laboratory; Experimental Rayon Plant; Destructive Distillation Installation; Dark Room for metallographic and micro-photographic study; the Graduate Research Laboratory; Unit-Processes Laboratory; Plant- and Equipment-Design Laboratory; Cellulose Laboratory.

The Chemical Engineering laboratories have suitable equipment, much of it specially designed, for the study of the main processes and plant problems of the chemical engineering industries. They are supplied with direct and alternating current, gas, water, steam, compressed air, electric motors, generators, and storage batteries. They are equipped with precision and control instruments, such as refractometer, surface-tension apparatus, polariscope, potentiometer, microscope, colorimeter, calorimeters, tint-photometer, thermocouples, and optical pyrometer. They are equipped also with filter presses, centrifuges, crushers, grinders and pulverizers, vacuum pan, stills, autoclave, jacketed kettle, gas, water, and electrical meters, equipment designed and built, such as double-effect evaporators, heat exchangers, flow-of-fluid experimental equipment for orifice, venturi, pitot, weir gauges, column still, absorption tower, crystallizer, rotary and tunnel driers, gas furnace, resistance and arc electric furnace, and humidifier. An experimental refinery and hydrogenation plant for vegetable and other oils has been installed. A complete permutit water-softening equipment forms a unit of an experimental water-purification and -treatment system. In addition, the nearby industrial plants offer opportunity for study of plant operation and problems.

There has been recently added to the Department of Chemical Engineering a valuable exhibit room, where products of many of the Chemical Engineering industries are exhibited. These exhibits, used for instruction, serve to give the student very valuable training. They are arranged in the form of flow sheets showing the various steps in manufacturing processes.

The Department Shop is supplied with machines and tools for building and repairing equipment.

Curriculum.—This curriculum provides thorough training in unit operations and unit processes, and in the methods of manufacturing industrial chemical products on a large scale. It includes basic courses in Chemistry, Physics, Mathematics, and fundamental Engineering as a background for the professional Chemical Engineering training of this department, so that

the graduate is prepared to enter any field of applied chemical work as a junior engineer.

The Chemical Engineer is expected to determine the process, the material, the design, and the economic capacity of the equipment needed. Efficient production requires exact control in every stage of the process. He must devise efficient and economical methods, discover sources of loss and the remedy, recover by-products, convert waste products and make industrial calculations of input, output, efficiency, quality, and cost.

North Carolina is a center of chemical industries in the South, with an annual output estimated at approximately one-fourth billion dollars. Some of the largest chemical industries of the country are located in this State, manufacturing such products as paper, fertilizers, vegetable oils, food products, leather, bromine, aluminum, metallurgical products, paints and varnishes. Such industries require properly trained Chemical Engineers. Chemical Engineering offers therefore inviting opportunities in this profession which renders a distinct service to the welfare and comfort of the people.

Graduates find employment in such fields as control work and industrial research; as technologists, superintendents of chemical industries, municipal engineers, engineers in the State and Federal health service, consulting chemical engineers, manufacturers of chemicals and of chemical equipment, chemical salesmen and representatives, developers of new chemical industries.

Ninety-three per cent of the graduates of this Department are successfully engaged in Chemical Engineering work. Because chemical problems are intricate, and scientific chemical-control work in industries is required, salaries for Chemical Engineering graduates are inviting. Many graduates of this Department now hold very responsible positions.

The Department cooperates with the State Departments in their chemical problems. Facilities are available for graduate work, upon which emphasis is placed. Prospective candidates for the Master's degree should address inquiries to Dr. R. F. Poole, Chairman of the Graduate Committee, North Carolina State College, Raleigh.

## CURRICULUM IN CHEMICAL ENGINEERING

### Freshman Year

For the freshman year, refer to page 94.

## Sophomore Year

	. ~	CREDITS	m: 1 m
	d Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303 Business English. Public Speaking, and English or Ameri-	3	•	•
can Literature, Eng. 211, 231, any one of (261-267) Introduction to Chemical Engineering,	3	3	3
Chem.E. 201, 202, 203	1	1	2
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Qualitative Analysis, Chem. 211	4	0	0
Quantitative Analysis, Chem. 212, 213	0	4	4
Shopwork, M.E. 122, 123	1	1	0
†Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	20	20	20
Junior Year  Engineering Mechanics, E.M. 301, 302  Strength of Materials, E.M. 320  Organic Chemistry, Chem. 421, 422, 423  Chemical Engineering I, Chem.E. 311, 312, 313  Industrial Stoichiometry, Chem.E. 331  Chemical Engineering Laboratory I, Chem.E. 321, 322, 323  Physical Chemistry, Chem. 431, 432  Physical Chemistry, Chem. 431, 432  Fluid Mechanics, E.M. 330  Elements of Electrical Engineering I, E.E. 321, 322  Machine Shop I, M.E. 225, 226  Electives  Summer requirement: six weeks industrial employment.	3 0 4 3 0 1 4 0 3 1 3 - 22	3 0 4 4 3 0 1 4 4 0 3 1 3 3 3 2 2 2 2 2	0 3 4 3 3 1 0 2 0 0 3 
Senior Year			
Principles of Chemical Engineering, Chem.E. 411, 412, 413	3	3	3
Water Treatment, Chem.E. 421	3	ŏ	ŏ
Chemistry of Engineering Materials, Chem.E. 422	ŏ	Š	Ö
Electrochemical Engineering, Chem.E. 423	0	0	3
Chemical Engineering Lab. and Design II.			
Chem.E. 431, 432, 433	2	2	2
Heat Engineering II. M.E. 301, 302	3	3	0
Mineralogy, Geol. 230	0 3	0	3
General Economics, Econ. 201, 202, 203  Elementary Modern Physics, Phys. 307	3	ő	ő
Technical Writing I, Eng. 321	0	3	ŏ
‡Business Law, Econ. 307	ŏ	ő	3
Electives	3	3	3
	20	20	20

All seniors are required to go on the inspection trip as part of their curriculum.

<sup>\*</sup> Students who have been certified by the Department of English as proficient in English may substitute for the courses listed German, M.L. 102.

 $<sup>\</sup>dagger$  Or 6 credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology.

<sup>‡</sup> With the approval of the adviser, courses in Education, English, History, German, Advanced Mathematics, Botany, and Library Methods may be substituted for Technical Writing, and Business Law.

### CIVIL ENGINEERING

Professor C. L. Mann, Head of the Department

Professors B. R. Van Leer, W. C. Riddick, Harry Tucker, \*W. G. Geile, T. S. Johnson; Associate Professor C. R. Bramer; Assistant Professor James Fontaine; Instructor C. M. Lambe.

The Department of Civil Engineering is located in the Civil Engineering Building in which the offices, classrooms, laboratories, and instrument rooms were designed and built to provide suitable facilities for efficient teaching and laboratory demonstrations.

The equipment common to general civil engineering includes surveying instruments, transits, levels, plane tables, current meters, sextants, planimeters, calculating machines, blueprint apparatus, lantern slides, and moving-picture machine. Special equipment includes precise surveying instruments, etc., and such equipment as Beggs deformeter and others of this class.

The equipment in the Materials-Testing Laboratory, in the Cement- and Bituminous-Materials-Testing Laboratory, and in the Sanitary Laboratory, fully meet the present-day requirements for laboratory instruction.

Soil Mechanics is a new course in the curriculum. A laboratory for this course is being furnished and equipped with the newest apparatus now in use by laboratories engaged in the study of the action of soils relative to engineering problems dealing with structures, foundations, and highway subgrades.

Civil Engineering is the oldest and most general of all the branches of modern engineering; in fact, from it all of the others have developed. The usefulness of Civil Engineering is so well recognized that a student who does not have a strong predilection for some other special branch may be safely advised to study Civil Engineering.

The Civil Engineering curriculum in the School of Engineering has been accredited by the Engineers' Council for Professional Development and is a well-balanced course of study, upon the completion of which a young man is equipped to assume the duties of junior engineer in any of the following important fields: Design, construction, operation, or testing of water-power developments, railroads, highways, water supplies, sewerage systems.

The Civil Engineering department offers a student the choice of the following four options:

- (a) General Civil
- (b) Highway
- (c) Construction
- (d) Sanitary

The first two years of these curricula are the same. They begin to differentiate slightly in the junior year and more so in the senior year, but

<sup>\*</sup> Deceased.

essentially they are the same and are designed to develop in the student engineer a well-trained mind, one which reasons logically, accurately, quickly. This is accomplished by a thorough training in applied mathematics and physics, which is supplemented with practical work in the field, drafting rooms, and laboratories.

More men are practicing Civil Engineering in North Carolina than all the other branches of engineering put together, and it is to train young men to serve under those already in the profession and subsequently to follow in their footsteps that the Civil Engineering curricula are offered.

The reasons for the various options in Civil Engineering are stated under the head of each.

### CONSTRUCTION ENGINEERING

\*Professor W. G. Geile, Faculty Adviser Professor C. L. Mann, Acting Faculty Adviser

North Carolina's progress indicates great increase in building and general construction. Construction needs more and better trained men to meet the immediate demands as well as to anticipate the increased demands of the future. Builders, as few others, need to know at all times exactly where they stand on the projects they undertake. The contractor, to be successful, must conduct his business systematically and economically. Therefore he must learn not only general engineering technique, but also something of Architecture and business methods and practices; he must delve further into construction and learn the principles involved, the methods, practices, and successful policies in use.

Combined into this curriculum are the fundamental courses in the Civil Engineering curriculum, courses in Architecture, courses dealing with business, and special courses in Construction Engineering in the junior and senior years.

The theory in the Construction Engineering courses is supplemented by frequent inspection trips to projects under construction; particular emphasis is placed upon estimating, modern methods, and management of operations.

This curriculum is designed to prepare the student to enter the work of actual construction of modern structures and to lay a foundation for future work as owners, managers, or executives in the construction industry.

The equipment available for instruction in Construction Engineering consists of a large file of complete plans and specifications for various types of structures, many samples of different building materials, lantern slides illustrating methods of construction, and a comprehensive file of trade literature and publications. The equipment of the entire Department of Civil Engineering is available for instruction.

<sup>\*</sup> Deceased.

### HIGHWAY ENGINEERING

### Professor Harry Tucker, Faculty Adviser

North Carolina has, during the past twenty years, made remarkable progress in the building of good roads. Most of the counties and cities in the State have also spent large sums in road construction and maintenance.

The building of roads and their proper maintenance are engineering problems to be handled by technically trained men. Since Highway Engineering is, fundamentally, a special division of the broad field of Civil Engineering, the curriculum for the first three years is identical with the regular Civil Engineering curriculum. In the fourth year, however, the student who specializes in Highway Engineering is given more specific instruction in those subjects pertaining to Highway Engineering.

State College offers unusual opportunities to young men to study Highway Engineering. Not only are the necessary facilities available for theoretical instruction, but there are in and near Raleigh many opportunities for studying the practical application of the principles of highway construction. Raleigh and Wake County have built most of the different types of road surfaces; the laboratories of the State Highway and Public Works Commission are available for inspection, and numerous experimental sections of road periodically being constructed by the Commission near Raleigh can be examined.

The equipment at the College for instruction in Highway Engineering is fairly complete, and is constantly being added to and enlarged. The Materials Testing Laboratory in the Civil Engineering Building is well-equipped for testing all materials used in road building; there is full field equipment for surveys, and modern drawing rooms provided with the necessary furniture and instruments. There is also a large lecture room fitted for the use of lantern slides and motion pictures.

#### SANITARY ENGINEERING

### Professor T. S. Johnson, Faculty Adviser

Because Sanitary Engineering so vitally concerns the health of the people, and because of the progress in North Carolina in this field, the demand for men trained in Sanitary Engineering has increased.

The Sanitary Engineering option is offered to meet this need. In the main it is the curriculum in General Civil Engineering with selected courses in Bacteriology, Chemical Engineering, and Sanitary Engineering.

As there is a large demand in this State for men familiar with the design and operation of water and sewage plants, special attention is given to the actual design and practical operation of water-purification and sewage-disposal plants.

The Sanitary Engineering Laboratory equipment is similar to that used in water- and sewage-plant laboratories; the student makes the same tests, using standard methods, as are made in water- and sewage-plant laboratories.

The City of Raleigh water-purification plant and the College gymnasium swimming-pool filter plant are available for practical demonstration and instruction. Through the cooperation of the Bureau of Sanitary Engineering, State Board of Health, located in Raleigh, the student has an opportunity to study all phases of its work, not only in Sanitary Engineering, but also in the broad field of public health.

Upon graduation, students are prepared to hold positions as water- and sewage-plant operators, assistant resident engineers with private consulting engineers, junior engineers with State boards of health, and with the United States Public Health Service. After a few years of experience, graduates may be expected to advance to positions as superintendents of waterworks, city engineers and city managers, consultant engineers, State sanitary engineers, and senior engineers with the United States Public Health Service.

### CURRICULUM IN CIVIL ENGINEERING

General Civil Engineering Highway Engineering

Construction Engineering Sanitary Engineering

#### Freshman Year

For the freshman year, refer to page 94.

### Sonhomore Year

Sophomore	rear		
0		CREDITS	
Courses	First Term	Second Term	Third Term
Calculus I, II, and III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, Eng. 211, 231,	and one		
term English or American Literature	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Geology, Geol. 220	3	Ō	ō
Theoretical Surveying, C.E. 221, 222, 223	3	2	3
Field Surveying, C.E. 225, 227	1	ő	ĭ
Mapping, C.E. 226		ĭ	ñ
Engineering Mechanics, E.M. 311, 312		â	2
†Military Science II, Mil. 201, 202, 203	2	9	2
Sport Activities, P.E. 201, 202, 208	·····	ī	ī
DP010 1100111000, 2 121, 201, 202, 200	·····		
	21	21	21
Surveying, C.E. s310, concurrent with Summer	Sahaal 2 anadita		
burveying, C.B. sorv, concurrent with Summer	School, 5 credits.		
Junior Y	ear		

Required			
Elements of Electrical Engineering I, E.E. 321, 322 Engineering Mechanics, E.M. 313 Strength of Materials, E.M. 321, 322 Materials of Construction, C.E. 321 Highway Engineering I, H.E. 322, 323	3 3 0 3 0	3 0 3 0 3	0 0 3 0 8
	9	9	

<sup>\*</sup> Students who have been certified by the Department of English as proficient in English may substitute for the courses listed French, M.L. 101.

† Or 6 credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology,

### Choice must be made of one of the following:

GENERAL CIVIL OP	TION	_	
Courses	First Term	CREDITS Second Term	Third Term
Fluid Mechanics, E.M. 330		3	0
Hydraulies, C.E. 443		ő	3
General Economics, Econ, 201, 202, 203		3	3
Heat Engineering III, M.E. 303		ŏ	3
Technical Writing I, Eng. 321		ŏ	ŏ
Electives		ĕ	3
Electives			Ľ
	18	21	18
HIGHWAY OPTIC	N		
Fluid Mechanics, E.M. 330	0	3	0
Hydraulics, C.E. 443	ŏ	ŏ	3
General Economics, Econ, 201, 202, 203	3	3	
Heat Engineering III, M.E. 303	0	ő	3 3
Electives	••••	ě	3
Diecuves		_	_
	18	21	18
CONSTRUCTION OP	TION		
Fluid Mechanics, E.M. 330	0	0	3
General Economics, Econ, 201, 202, 203		8	3
Sanitary and Mechanical Equipment of Buildings, C.E. 3		ŏ	ŏ
Materials Testing Laboratory, H.E. 332, 333		ĭ	ĭ
Construction Engineering I, C.E. 361, 362, 363			3
Electrical Equipment of Buildings, E.E. 343		3 0	3
Electives		3	3
DICOUVES			_
	21	19	22
SANITARY OPTIC	ON		
Fluid Mechanics, E.M. 330	0	3	0
Hydraulics, C.E. 443		ň	š
General Bacteriology, Bot. 402	0	Ž Ž	ŏ
Aquatic Biology, Bot. 473		Ô	2
Sanitary Engineering, C.E. 383	ŏ	ň	3
Treatment of Water and Sewage, Chem. E. 303	3	ŏ	ŏ
Technical Writing I. Eng. 321	0	ŏ	3.
Business Law, Econ. 307		ŏ	ŏ
Electives		3	3
		_	_
	18	19	20

### Senior Year

Required			
COURSES Reinforced Concrete, C.E. 421, 422 Soil Mechanics, C.E. 435 Theory of Structures, C.E. 431, 432 Structural Design, C.E. 426, 427 Graphic Statics, C.E. 423	3 8 3	CREDITS Second Term 3 0 3 0 3	Third Term 0 0 0 3 0
	10	9	3
GENERAL CIVIL OF Railroad Economics, C.E. 442 Transportation, H.E. 423 Applied Astronomy, C.E. 453	0 0	3 0 0	0 3 4
Materials Testing Laboratory, H.E. 332, 333		1	1
Waterworks, C.E. 485 Sanitary Engineering Laboratory, C.E. 481, 482 Sewerage, C.E. 486 Business Law, Econ. 307 Electives	1 0 0 6	0 1 3 0 3	0 0 3 6
	20	20	20

### HIGHWAY OPTION

		CREDITS	
Courses	First Term	Second Term	Third Term
Transportation, H.E. 423	0	0	3
Applied Astronomy, C.E. 453	0	Ŏ	4
Materials Testing Laboratory, H.E. 332, 333	0	ĭ	î
Highway Engineering II, H.E. 421, 422		3	õ
Highway Office Practice and Design, H.E. 425, 426	1	ī	Ö
Business Law, Econ. 307		Ö	3
Electives	6	6	6
	_	_	
	20	20	20
CONSTRUCTION OF	TION		
Construction Engineering II, C.E. 461, 462, 463	3	3	3
Construction Equipment, C.E. 468		3	ŏ
Accident Prevention in Construction, C.E. 469	0	Ō	
Specifications, C.E. 467	0	Ō	3
Economics or Social Sciences		3	3 3 3 3
Architectural Drawing, Arch. 306		0	3
Electives	3	3	3
	<del></del>	<del></del>	-
	19	21	21
SANITARY OPTIC	NC		
Materials Testing Laboratory, H.E. 332, 333	0	1	1
Sanitary Engineering Laboratory, C.E. 481, 482		î	ô
Waterworks, C.E. 485		õ	ŏ
Water Purification, C.E. 488	0	3	ŏ
Sewerage, C.E. 486		3	Ŏ
Sewage Disposal, C.E. 489	0	0	
General Economics, Econ. 201, 202, 203		3	3 3 <b>3</b>
Financing of Sanitary Utilities, C.E. 483		0	3
Electives	3	3	6
	20	23	19
	20	20	1.5

All seniors are required to make the official engineering inspection trip.

### DEPARTMENT OF ELECTRICAL ENGINEERING

Professor William Hand Browne, Jr., Head of the Department

Professors J. E. Lear, R. S. Fouraker; Associate Professors R. R. Brown, L. M. Keever; Assistant Professors R. J. Pearsall, K. B. Glenn, E. W. Winkler; Laboratory Assistant J. H. Nichols; Teaching Fellow H. L. Morgan, Jr.

Buildings and Equipment.—The Department is housed in Daniels Hall. This is an L-shaped building, the main part of which is four stories of brick, stone and steel construction, with a two-story wing of shop construction, the sides of which are almost entirely of glass.

Laboratories.—The laboratories can be classified as follows: Dynamo, Communications and Transmission; Photometric, Measurements, Standards, High Tension, and Electronics. The Dynamo, High-Tension, and Electronics Laboratories are located in the wing; all the others are in the basement of Daniels Hall.

The Dynamo Laboratory.—This room is sixty by eighty feet in area. Here the characteristics and operating conditions of representative types of machines are studied. This laboratory has a total of approximately 300 kva of motors and generators (about 50 in all). There are about 150 kilowatts available in motor-generator sets, and rotary converters.

There are also available approximately 150 kva of transformers for tests.

The laboratory is well supplied with accessory equipment, such as load units, field rheostats, starting boxes, prony brakes, inductances, capacitors, and other devices.

The Communications and Transmission Laboratory.—The Communications and Transmission laboratory is equipped for measurements and tests on communication and power-transmission circuits. It contains an outstanding artificial power-transmission line on which power-transmission line characteristics can be duplicated for study and testing. A complete long-line telephone system, with two two-way repeaters and associated apparatus, arranged for all usual and several special tests, is another feature of this laboratory. Other equipment for study and test includes an artificial line for the study of corona effects, artificial telephone lines, telephone central-station equipment, telegraph equipment, teletypewriter equipment, and a complete 100-line private automatic exchange with its associated appliances. Test equipment includes standard oscillators, transmission-measuring sets, noise-measuring sets, power-level instruments, audibility meters, attenuators, and apparatus for measuring distortion.

Photometric Laboratory.—This laboratory is housed in a room especially fitted up for the purpose. The equipment includes photometric standard lamps, two 300-cm. Leeds & Northrup photometer bars, a 36" Ulbrecht

spherical photometer, two Macbeth-Evans Illuminometers, several Weston foot-candle meters, and other portable photometers. There is also the usual list of accessories, such as sight boxes of the Lummer-Brodhun and flicker types, rotating disks, and screens.

Measurements Laboratory.—The Measurements Laboratory is arranged for making standard and special tests and measurements on the fundamental electrical units. The apparatus includes standards of resistance, inductance and capacitance, with special bridges for the measurement of each, Fahy permeameter and Epstein core-loss test sets for magnetic measurements on iron and steel, a special double-bridge and oil-bath arrangement for conductivity measurements, and other special test appliances.

The Standards Laboratory.—The Standards Laboratory is arranged for making accurate calibration tests on all types of electrical instruments. There are two specially designed test tables equipped with convenient means of controlling current and voltage. A large number of high quality instruments of all types is provided. These include standard cells, a Leeds-Northrup Type-K and a Queen-Gray Potentiometer, standard voltmeters, ammeters, wattmeters, watt-hour meters, transformers, resistances, condensers and inductances. Certificates of accuracy from the National Bureau of Standards in Washington, D. C. have been secured for many of these instruments. Special equipment used includes a sine-wave generator, a constant-speed frequency set, Silsbee current and potential transformer test sets, and others.

High-Tension Laboratory.—The High-Tension Laboratory has a 7½-kva 50,000-volt, and a 10-kva, 100,000-volt transformer. The induction regulators which go with these transformers make it possible to vary the voltage from zero to 150,000 volts. There is also standard oil-testing equipment for testing transformer oil, a standard spark gap, and numerous insulators of various types for carrying on routine tests. Frequent use is made of the cathode-ray oscillograph in studying surges and other disturbances.

The Electronics Laboratory.—The Electronics Laboratory is arranged for testing electronic devices and their associated equipment and circuits. It is supplied with the various types of electron tubes, including vacuum tubes, gaseous tubes, phototubes, mercury-vapor tubes, cathode-ray tubes, and apparatus for operating and testing them. The test equipment includes vacuum-tube bridge and test sets, oscilloscopes, and the various sensitive instruments required for electronic measurements. Television equipment is being provided through a recent gift to the Department.

Instrument Room and Shop.—A centrally located Instrument Room serves all of the laboratories. Instruments are issued upon requisition, and returned at the end of the laboratory period. They are kept in repair by a competent man who divides his time between the care of the instruments and the Departmental Shop, which adjoins the Instrument Room. The Shop is fitted up with sufficient tools for making all minor repairs to laboratory equipment as well as apparatus for special research.

Storage-Battery Room.—This room contains two 120-volt, 100-ampere-hour batteries; two 12-volt, 200-ampere-hour batteries, the complete battery and counter emf cells for operating the automatic telephone station, and portable cells of various types. Motor-generator sets, and mercury-vapor and tungar rectifiers are provided for charging the batteries.

Purposes of the Curriculum .- The training of young men for active work in a field as wide and diversified as the Electrical Industry demands, above all else, a thorough preparation in the sciences underlying all branches of engineering, a broad foundation in fundamental electrical theory, and a clear understanding of the characteristics of electrical machinery and systems. These factors are essential for success, whether it be in the design and manufacture of electrical equipment, in power production and utilization, or the fields of communication and signaling, as in all these branches of the industry technical advances are being made with increasing rapidity. With this object in view the curriculum in Electrical Engineering includes comprehensive training in mathematics, physics, and chemistry-the fundamental sciences—and adequate training in allied branches of engineering. All courses are accompanied by coördinated work in the laboratory and intensive drill in the applications of theory by means of carefully planned problems. In the senior year the student is offered two options, one in the fundamentals of communication, the other in the field of industrial applications.

The curriculum includes a thorough drill in the preparation of technical reports. There is a decided trend in industry to select for high administrative positions men who have had good technical training and have in addition developed executive ability. The electives included in the curriculum in Electrical Engineering enable a student inclined toward executive work to take non-professional courses which deal with the economic and sociological problems of the day. On the other hand, those students who prefer the more technical phases of engineering can select scientific electives specially helpful in that particular branch of the profession into which they wish to go. Students are urged to plan as early as possible a worthwhile group of elective courses so chosen as to round out their curriculum.

Each student is also required to spend at least six weeks in satisfactory industrial employment before receiving his degree, and during the senior year to make an inspection trip to a number of modern electric installations and submit a report upon these.

Close coördination in the work of the American Institute of Electrical Engineers is secured through a student branch at the College, which meets twice a month, through the State Section of the Institute, which meets several times during the year, and through the regional meetings of the Institute, one section of which is organized as a student-activities conference.

### CURRICULUM IN ELECTRICAL ENGINEERING

### Freshman Year

For the freshman year, refer to page 94. Surveying, C.E. 5200, 3 credits, is required in the summer immediately following the freshman year.

### Sophomore Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Calculus I, II, III, Math. 201, 202, 303	4	4	4
Physics for Engineers, Phys. 201, 202, 203  Business English, Public Speaking and English or	4	4	4
American Literature, Eng. 211, 221, 261 or 221 or	337 3	3	3
General Economics, Econ. 201, 202, 203			3
Watel Warks W F 128	0	0	3
Electrical Engineering Fundamentals, E.E. 201, 202	3	3 0 3 2 1	0
: Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	_		_
	20	20	20
Junior Year			
Engineering Mechanics, E.M. 811, 312, 313	3	3	3
Elementary Mechanism. M.E. 215, 216, 217	1	1	ĭ
Engineering Thermodynamics, M.E. 307, 303, 309		3	3
Mechanical Engineering Laboratory II. M.E. 313, 314,	315 1	1	1
Technical Writing, Eng. 321		8	0
Differential Equations, Math. 401a	3	0	0
Flomentary Modern Physics, Phys. 307		G	3
Electrical Engineering, E.E. 301, 302, 303	3	3	3
Electrical Engineering Problems, E.E. 305, 306, 307	1	1	1
Electrical Engineering Laboratory, E.E. 311, 312, 313		2 3	2
Electives	3	3	3
	20	20	20
Summer requirement: six weeks industrial employm	bent.		
Senior Year			
Business Law, Econ. 307	0	0	3
Assumpting for Engineers From 212		3	0
Engineering Economics, I.E. 301	3	0	0
Symmetry of Wateriels E. W. 820	3	0	0
Floretries Industry IF 462	0	3	0
Fluid Mechanics, E.M. 330, 331	3	3	0
Thereinstica F F 437		0	3
Electric Transmission, E.E. 403		0	4
Whatrie Distribution, E.R. 433	0	0	3
Alternating Current Machinery, E.E. 401, 402	4	4	0
Electrical Engineering Laboratory, E.E. 411, 412, 413 First Option		2	2
Electric Communication, E.E. 425, 426, 427		3	3
Electric Power Application, E.E. 421, 422, 423	3	3	3
Electives	3	3	3
	21	21	21

All seniors are required to go on the inspection trip as part of their curriculum.

Modern Language, Sociology.

<sup>\*</sup> Students who have been certified by the Department of English as proficient in English may substitute for the courses listed French, M.L. 101.

† Sophomore class is divided into two sections, one half taking Fundamentals and Metal Shop as scheduled, the other half taking the Metal Shop during the Fall Term and the Electrical Engineering Fundamentals the second and third terms.

† Or 6 credits in one or two of the following departments: Economics, Psychology, History,

### GENERAL ENGINEERING

# The Curriculum in Engineering Leading to the Bachelor of Science in Engineering

Professor G. Wallace Smith, Administrative Officer

Today we live in a world of applied science, and for that reason the cultured gentleman of the twentieth century must know something of Engineering; otherwise, he is not well informed.

Engineering is not only a means of earning a livelihood; it is also a culture, a manner of thinking and living. It is founded upon the pure sciences of Mathematics, Physics, and Chemistry. It deals largely with Materials, Methods, Men, and Money. There appears to be an increasing demand for a curriculum which will offer to young men the opportunity to study Engineering as a field of culture, with no specific purpose of specialization but solely with the idea of securing a well balanced, thoroughly rigorous training and discipline in the basic principles of Engineering. Largely for this reason this curriculum is here offered. It is not an easy one; it omits no essential foundation stone in the present recognized engineering curricula. The freshman year is identical with that of all other Engineering curricula only in that specialized technical courses are omitted and to some extent replaced by electives which must be taken more largely in the social sciences.

The advantages of this curriculum are several:

The student acquires a better, broader training in the basic principles of all Engineering curricula.

He has more electives and more freedom in the choice of these electives than in the specialized curricula.

The total length of the curriculum is 9 term credits shorter than any of the specialized curricula. This permits a student more time for extracurricular activities which are an essential part of the lives of all college students, yet because of the heavily loaded condition of the specialized curricula are frequently crowded out for all but the very best and most energetic students.

This curriculum will be administered the first two years by B. F. Brown the Dean of the Basic Division, the last two years by B. R. Van Leer the Dean of the School of Engineering.

The curriculum leads to the B.S. in Engineering and is as follows:

### CURRICULUM IN GENERAL ENGINEERING

### Freshman Year

	CREDITS	
Courses First Term Same as now required for all Engineering students	Second Term 19	Third Term 19
Sophomore Year		
Calculus I, II, III, Math. 201, 202, 303       4         Physics, Phys. 201, 202, 203       5         English or Modern Language <sup>1</sup> 3         Military Science II, Mil. 201, 202, 203, or Elective       2         Sports Activities, P.E. 201, 202, 203       1         Elective <sup>2</sup> 4	4 5 3 2 1 4	4 5 3 2 1 4
Summer School Surveying, C.E. 102s	19	19
Junior Year <sup>3</sup>		
Engr. Mechanics, E.M. 311, 312, 313 3  Strength of Materials, E.M. 321 0  Engr. Geology, Geol. 220 3  Thermodynamics and Lab., M.E. 307, 308, 309 3  and M.E. 318, 314, 315 1  Economics, Econ. 201, 202, 203, or other Social Science 3  Business Law, Econ. 307 6  Elective <sup>2</sup> 6	3 0 3 1 3 3 6 19	3 3 0 3 1 3 0 6 -
Senior Year		
Elements of Elect. Eng. II, E.E. 331, 332, 333 4 Elements of Structures, C.E. 438, 439 0 Fluid Mechanics, E.M. 330 3 Strength of Materials, E.M. 322 3 Chem. of Eng. Materials, Chem.E. 212, 213 0 Accounting I, Econ. 212 3 Elective <sup>2</sup> 6	4 3 0 0 3 3 6 —	4 3 0 0 3 3 6 19

<sup>&</sup>lt;sup>1</sup> Students who do not make an average grade of B or better in Freshman English will be required to continue English in the Sophomore year.

<sup>&</sup>lt;sup>2</sup> Free electives, except that not more than 15 term eredits may be chosen from the technical or special technical courses in the School of Enginering.

<sup>&</sup>lt;sup>3</sup> Students who contemplate the addition of a fifth year in Engineering for the purpose of obtaining a professional degree will consult the head of the department in which he intends to major and make such substitutions for the Engineering courses offered in this curriculum as are necessary for the satisfactory completion of the technical requirements of the degree sought.

### GEOLOGICAL ENGINEERING

Professor Jasper L. Stuckey, Head of the Department Assistant Professor John M. Parker; Teaching Fellow George P. Jones, Jr.

Facilities.—The function of the Department of Geology is twofold: first, to offer service courses required as prerequisites in the Agricultural Education, and Engineering curricula; second, to administer the curriculum in Geological Engineering.

The classrooms, laboratories, and offices of the Department are in Primrose Hall. The equipment includes a varied collection of minerals, rocks, and fossils, illustrating the materials of different parts of the earth's crust; laboratory equipment for carrying on qualitative chemical and blowpipe examination of minerals and rocks; microscopes and other optical equipment; facilities for making thin sections of rocks and minerals; geological models; a collection of topographic maps and geologic folios illustrating important and typical areas in the United States.

Curriculum.—This curriculum is designed to train young men in the fundamentals of engineering with its special application to geology. Many engineering undertakings, especially major construction projects, such as large dams and reservoirs, tunnels, and large buildings, depend for success on exact knowledge of their geological setting. On the other hand, such geological problems as the economical development of mineral resources require the use of the precise methods of engineering. The curriculum combines these two sorts of information and training so necessary to success in this important specialized field.

Well-trained geological engineers are in demand by mining and oil companies, by State and Federal Geological Surveys, in the larger industries using mineral raw materials, by leading railways, by hydro-power concerns, and as teachers of geology in technical schools. Openings in this field have been on the increase because of the recent recognition that the geological aspects of engineering and industry have been neglected. Consequently, men with the specialized training required have been difficult to find.

The mineral resources of the State offer important possibilities for large future developments. In Western North Carolina there exist valuable deposits of copper, nickel, iron, feldspar, mica, kaolin, cyanite, barite, granite, limestone, and other minerals; in Central North Carolina are coal deposits of promising quantity and quality, and large areas of pyrophyllite, granite and other building stone; and on the Coastal Plain are deposits of phosphate and marls. The production and use of these materials will undoubtedly be expanded as their availability becomes better known. Their profitable development will require more and more skill in geology and engineering, not merely in the extraction of the ore, but more especially in controlling the direction of the work.

New discoveries are sure to be made in such a richly mineralized area, but no longer by chance or superficial hunting. The day of the old-time, untrained prospector is gone; every resource of science must now be utilized in this increasingly difficult search. The successful prospector of the future must understand the physical and chemical processes and conditions responsible for each kind of mineral deposit, as well as the secondary alterations they may undergo. He must be capable of using the complex and sensitive instruments devised for investigating the earth's crust far below the surface.

In these related fields of major engineering projects and the economical extraction of the mineral raw materials of industry, men well trained in the fundamentals of the physical sciences and in engineering technology will occupy key positions. In a civilization such as ours this must be an increasingly large field.

### CURRICULUM IN GEOLOGICAL ENGINEERING

### Freshman Year

For the freshman year, refer to page 94.

### Sophomore Year

G		CREDITS	m : m
Courses Fi Calculus I, II, III, Math. 201, 202, 303	rst Term	Second Term	Third Term
*Business English, Public Speaking and English or Ameri-	3	3	3
can Literature, Eng. 211, 231, or any one of 261-267  Qualitative Analysis, Chem. 211	4	0	ő
Quantitative Analysis, Chem. 212	õ	4	ŏ
Physics for Engineers, Phys. 201, 202, 203	4	4	4
Engineering Geology, Geol. 220	3	0	0
Historical Geology, Geol. 222	0	3	0
Mineralogy, Geol. 230	0	0	3 3
Geomorphology, Geol. 223	0 2	0 2	2
†Military Science II, Mil. 201, 202, 203	ī	î	í
Sport retivities, 1.13. 201, 202, 200	_		
	21	21	20
Junior Year			
Engineering Mechanics, E.M. 301, 302	3	3	0
Fluid Mechanics, E.M. 330	0	0	3
Strength of Materials, E.M. 320	0	0	3
Heat Engineering III, M.E. 303 Elements of Electrical Engineering I, E.E. 320, 321	0	0 3	3
Physical Chemistry, Chem. 331	5	ő	ŏ
Theoretical Surveying, C.E. 221, 222	3	š	ŏ
Field Surveying, C.E. 225	1	Ō	0
Mapping, C.E. 226	0	1	0
Stratigraphy and Index Fossils, Geol. 361	3	0	0
Petrology, Geol. 443	0	0 3	4 0
Advanced Mineralogy, Geol. 332	Ö	4	ŏ
Geophysics, Geol. 353	ŏ	õ	4
Electives	3	3	3
		<del></del>	
	21	20	20
Senior Year			
General Economics, Econ. 201, 202, 203	3	3	3
Business Law, Econ. 307	0	3	0
Optical Mineralogy, Geol. 431, 432, 433	3	3	3
Soil Mechanics, C.E. 435	3	0	0
Technical Writing I, Eng. 321	3 3	0 3	0 3
Economic Geology, Geol. 411, 412, 413	õ	3	0
Field Methods, Geol. 463	ŏ	ő	4
Mining Engineering, Mine Design, and Ore Dressing,	-		-
Geol. 471, 472, 473	3	3	3
Electives	3	8	3
	21	21	19

All seniors are required to go on the inspection trip as part of their curriculum.

Students who have been certified by the Department of English as proficient in English may substitute, for the courses listed, French, M.L. 101.

<sup>†</sup> Or 6 credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology.

### INDUSTRIAL ENGINEERING

Professor H. B. Shaw, Head of the Department
Associate Professor F. F. Groseclose.

North Carolina has an abundance of natural resources and its industries are progressing steadily, which mean that there are increasing needs for educated personnel and informed leaders to deal with the complexities of modern industries.

Engineers have had a surprisingly large share in America's amazing industrial progress through their engineering knowledge and the adaptation of engineering methods and approach to the solution of industrial problems. To be even more effective in industry and modern life, engineers should, to their study of engineering, add knowledge of the economic and social sciences, because they have to deal not only with the materials and forces of nature but also with men, money, and affairs, and particularly with industrial relations.

The aim of the curriculum in Industrial Engineering is to prepare students to enter the employ of industries as engineering graduates, and, through experience, to develop into positions of responsibility and service; and thus to meet the demands of industries for men educated as engineers with special preparation for the activities of industries.

The curriculum provides thorough education in the subjects fundamental to engineering—basic engineering courses, courses in Psychology, Economics, and Accounting—and, besides, Industrial Engineering courses which apply engineering methods and principles to the study of industries; so that students may learn to make engineering, economic, and social analyses concurrently, and to apply them to the conduct of enterprises.

Electives, to be selected from engineering and other College courses, with the approval of the adviser, offer opportunity for the development of individual aptitudes.

Students in Industrial Engineering get class and laboratory instruction from other engineering departments and from other college courses and these are correlated and extended by the Industrial Engineering courses.

At present the classrooms and offices are in the Civil Engineering Building but other quarters are to be provided in the near future.

### CURRICULUM IN INDUSTRIAL ENGINEERING

### Freshman Year

For the freshman year, refer to page 94.

### Sophomore Year

		CREDITS	
	st Term	Second Term	Third Term
Calculus I, II, and III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, and English or Ameri-			
can Literature, Eng. 211, 231 and any one of courses			
261 to 267	3	3	3
Physics for Engineers, Phys. 201, 202, 203	4 3	4	4
General Economics, Econ. 201, 202, 203	2	3	3
Shopwork, M.E. 124, 125, 126	3	3 2 3 2 1	2 3
†Military Science II, Mil. 201, 202, 203	2	3	2
Sport Activities, P.E. 201, 202, 203	ĩ	ĩ	í
Sport Acavines, 1.D. 201, 202, 200	_		
	22	22	22
Junior Year			
Engineering Mechanics, E.M. 301, 302	3	3	0
Strength of Materials, E.M. 320	ő	ŏ	3
Engineering Thermodynamics, M.E. 307, 308, 309	š	3	3
Mechanical Engineering Laboratory II, M.E. 313, 314, 315	ĭ	i	ĭ
Machine Shop II, M.E. 227, 228, 229	ī	ī	ī
Factory Equipment, M.E. 224	0	0	3
Accounting I, Econ. 301, 302, 303	3	3	3
Management Engineering I. E. 201, 202, 203	3	3	3
Electives	6	6	3
			_
	20	20	20
Summer requirement: six weeks industrial employment.			
Senior Year			
Technical Writing I, Eng. 321	0	3	0
Business Law, Econ. 307	3	0	Ó
Industrial Psychology, Psychol. 338	0	0	3
Materials of Construction, C.E. 321	3	0	0
Elements of Electrical Engineering II, E.E. 331, 332, 333	4	4	4
Engineering Economics, I.E. 301	3	0	0
Electrical Industry, I.E. 402	0	3	0
Industrial Engineering Problems, I.E. 312, 313	0	3	3
Investigation and Report, I.E. 433	0 6	0 <b>6</b>	3
Electives		<u> </u>	6
	19	19	19

All seniors are required to go on the inspection trip as part of their curriculum.

<sup>\*</sup> Students who have been certified by the Department of English as proficient in English may substitute for the courses listed, French, M.L. 101. These students are required to take two years of French.

<sup>†</sup> Or 6 credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology.

#### MECHANICAL ENGINEERING

Professor L. L. Vaughan, Head of Department

Professors E. G. Hoefer, H. B. Briggs, F. B. Wheeler, R. B. Rice; Associate Professors H. E. Satterfield, F. F. Groseclose; Assistant Professors W. S. Bridges, G. G. Fornes, L. R. Parkinson, P. E. Moose; Instructors M. R. Rowland, W. E. Selkinghaus, C. N. Sanford, R. J. Maddison, T. C. Brown, T. L. Nash, R. L. Cope, W. E. Adams; Instructor Emeritus C. B. Park.

Buildings and Equipment.—The Department of Mechanical Engineering occupies both Page Hall and the Shops Building. In Page Hall are the office of the Head of the Department, offices for the drawing division and the laboratory division, classrooms, drafting rooms, the Internal-Combustion-Engine Laboratory, Hydraulics Laboratory, and Aeronautical Laboratories. It contains also the offices of the instructors in the several shops and Machine Shop, and provides space for the Mechanical Engineering Laboratory. It contains also the offices of the instructors in the several shops and one classroom.

Drafting Rooms.—The drafting rooms are equipped with tables, stools, cases for boards, reference files, and models. The drafting rooms have two Universal Drafting Machines in addition to other necessary equipment. The blueprint room contains an electric blueprint machine, a sheet washer, and an ozalid printing machine, besides the usual sun frames.

Shops.—The Wood Shop is equipped with a variety of modern machines: lathes, combination saw, dado saw, cut-off saw, jointer, mortisers, sanders, moulder, sticker, trimmer, shaper, boring machines, band saws, jig saw, various types of clamps, a glue room, and other essentials that go to make an up-to-date shop. The machines are motor driven with either individual or group drive. The shop includes work benches, hand tools and necessary auxiliary equipment and a modern spray-gun for finishing surfaces.

The Foundry Equipment consists of a 36" cupola, a 14" cupola, brass furnace, core oven, core machine, moulding machines, cleaning mill, motor-driven elevator, emery wheel and buffer, and the necessary tools and patterns for practical moulding. Complete sand-testing equipment has been recently added.

The Forge Shop is equipped with thirty anvils and forges, the blast for the forges being produced by a large power blower and regulated by an individual control on each forge easily accessible to the operator. The shop is also equipped with a modern down-draft-type exhaust system, thereby eliminating all overhead pipes which would interfere with the proper and efficient lighting of the shop. Other equipment consists of drill press, iron shears, vises, emery wheel and other necessary forging equipment. Recent additions include a 300 ampere direct current electric welder and a ten station oxyacetylene welding manifold system. Both low and medium pressure types of torches are included in the installation.

The Machine Shop, well heated, lighted, and ventilated, is equipped with work benches, machinist's vises, and a variety of machine tools: engine lathes, bench lathes, shapers, planers, milling machines, vertical and horizontal boring mills, drill presses, slotting machines, grinders, arbor presses, and a variety of hand tools, cutters, clamps, jigs, and other equipment necessary to modern machine-shop practice. Some of the machines are group driven, others are individually driven.

Laboratories.—The Heat-Power, Heating and Air Conditioning and Metallurgical laboratories are located in the Shops Building. The Heat-Power Laboratory is equipped with plain slide-valve, automatic cut-off, multiple-expansion, and uniflow engines arranged for condensing and noncondensing operation. It is provided with a modern turbo-generator set complete with a high-vacuum condenser. A two-stage air compressor driven by a uniflow engine supplies air for experimentation. Weighing tanks and steam pumps make possible tests in this field. This division of the laboratory is equipped with instruments and apparatus for making coal and gas analyses and tests, lubrication tests, calibration tests, heat-transfer tests, nozzle tests, and general efficiency and thermodynamic tests.

The Heating and Air Conditioning division of the laboratory contains several heating boilers with appropriate oil-burning equipment, weighing tanks and instruments for complete tests. The laboratory is also equipped with an air conditioner, unit heaters, radiator-testing equipment, a half-ton refrigeration machine, insulation-testing equipment and a fan and duct testing unit.

The Metallurgical Laboratory is equipped for work dealing with the structure and the physical and mechanical properties of metals and alloys. The equipment includes electric and gas heat-treating furnaces with controls, indicating and recording pyrometers; apparatus for polishing and etching specimens, metallurgical microscopes with complete lens combinations, and dark rooms for photographic and photoelastic equipment. The laboratory is equipped with 15,000-lb. and 50,000-lb. material testing machines.

The Aeronautical, Hydraulic Machinery, and Internal Combustion Engine Laboratories are housed in the basement of Page Hall. The Aeronautical Laboratory is equipped with a new twenty-inch wind tunnel capable of speeds in excess of 100 miles per hour. The tunnel is equipped with automatic balances. A wing testing unit is provided for wing-load tests. A complete set of flight instruments is available for study, experiments and tests. The laboratory is equipped with the major component parts of several airplanes and a complete monoplane of recent design. A smokebox is provided for flow analysis work.

The Hydraulic Testing Laboratory contains a ten-inch Francis-Type Hydraulic Turbine, of the most modern design, directly connected to an electric dynamometer, together with weir, Venturi, flume, and instruments for complete test. The laboratory has high speed and low speed centrifugal pumps

arranged for tests, also Venturi tubes, weirs, nozzles, meters and a hydraulic channel for the study of flow.

The Internal Combustion Engine Laboratory is equipped with high speed and low speed compression ignition engines, automotive and stationary sparkignition engines, air cooled and liquid cooled aircraft engines, all of the most modern design. Each of the test engines, of which there are ten at present, is equipped with its power absorbing device, such as club-propellers in the case of Aero Engines and water brakes, calibrated electric generators and electric cradle-dynamometers for the other engines. A 5-hp. electric dynamometer is provided for accessory testing and a 125-hp. dynamometer for high-speed engine testing. Engines, carburetors, ignition equipment and accessories are provided for study.

All of the laboratories are designed around the unit system for instruction, whereby units in or whole divisions of the laboratory may be operated without depending on or interfering with other units or divisions.

Purposes.—The Mechanical Engineer is primarily a designer and builder of machines and other equipment for use in manufacturing processes, transportation, and the generation of power. He is responsible for the conservation and economical use of the power-producing resources of the world through the application of the proper kind of equipment in each field of production. He is called upon to take charge of the executive management of the manufacturing, transportation, and power industries. For the Mechanical Engineer to be well grounded in his profession, he must be thoroughly familiar with both the science and the art of engineering.

The curriculum in Mechanical Engineering begins with a thorough training in Mathematics, Physics, and Chemistry as a foundation for the technical work which is later developed along several parallel lines. The student is taught how these fundamental sciences are applied to the physical properties of the materials of construction, and to the transformation of heat energy into work and power. This is accomplished by means of courses in Drafting, Metallurgy, Mechanics, and Thermodynamics; by the work in the wood shop, forge shop, foundry, and machine shop, and by the tests performed in the mechanical laboratory.

Through the training offered in this curriculum it is hoped that the young graduate, after gaining some experience in industry, will be qualified to accept the responsibilities which will be imposed upon him in the professional field of Mechanical Engineering.

CREDITS

## CURRICULUM IN MECHANICAL ENGINEERING

### Freshman Year

For the freshman year, refer to page 94.

### Sophomore Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Calculus I, II, and III, Math. 201, 202, 303	4	4	4
*Business English, Public Speaking, Eng. 211, 231	3	3	õ
Physics for Engineers, Phys. 201 202 203	4	4	Ă
mechanical Drawing, M.E. 211, 212, 213	9	2	'n
metallurgy, M.E. 221, 222, 223	9	2	2 2
Snopwork, M.E. 124, 125, 126	9	2	
Engineering Mechanics, E.M. 311	Δ.	ñ	$\frac{2}{3}$
Military Science, Mil. 201, 202, 203	2	ž	2
Physical Education, P.E. 201, 202, 203	1	ī	1
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	20	20	20
Junior Year			
Engineering Mechanics, E.M. 312, 313	3	3	0
Machine Shop II, M.E. 227, 228, 229	7	1	i
Engineering Thermodynamics M E 307 308 300	9	3	3
Mech. Eng. Lab. II, M.E. 313, 314, 315	1	1	ī
<b>↓Minematics</b> , M.E. 317, 318, 319	9	3	3
materials of Construction, C.E. 321	- 9	0	ō
Strength of Materials, E.M. 321, 322	0	3	3
English or American Literature, Eng. 261, or 265, 266, 26	87 2	Ō	Õ
Fluid Mechanics, E.M. 330	0	0	3
Business Law, Econ. 307	0	3	Ö
Technical Writing, Eng. 321	0	Ō	3
Electives	3	3	3
	20	20	20

Summer requirement: Six weeks industrial employment, or ten hours solo flying in Aero. Option.

<sup>\*</sup> Students who have been certified by the Department of English as proficient in English may substitute for the courses listed French, M.L. 101.

<sup>†</sup> Or 6 credits in one or two of the following departments: Economics, Psychology, History, Modern Language, Sociology.

<sup>‡</sup> Furniture Option, M.E. 341, 342, 343, or Aero. Option, M.E. 323, third term.

### MECHANICAL ENGINEERING I-GENERAL OPTION

Professor L. L. Vaughan, Faculty Adviser.

### Senior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
General Economics, Econ. 201, 202, 203		3	3
Power Plants, M.E. 401, 402, 403	3	3	3
Heating and Air Conditioning, M.E. 404		3	0
Machine Design, M.E. 411, 412, 413	3	3	3
Refrigeration, M.E. 405	0	0	3
Mechanical Engineering Laboratory III, M.E. 407, 408, 4	09 1	1	1
Elements of Electrical Engineering II, E.E. 331, 332, 3	33 4	4	4
Hydraulic Machinery, E.M. 331		0	0
Electives	3	3	3
	_	-	
	20	20	20

All seniors are required to go on the inspection trip as part of their curriculum.

### MECHANICAL ENGINEERING II—AERONAUTICAL OPTION

Professor L. R. Parkinson, Faculty Adviser.

Recent developments in the aeronautic industry has resulted in a demand for graduates who are trained in the fundamentals pertaining to this field. To meet this demand, the Mechanical Engineering Department offers an option to train students in the design, construction and testing of aircraft, their power plants and instruments. An airport located on the North-South air route and near the college offers the student an opportunity to inspect various types of airplanes.

Freshman, Sophomore and Junior years identical with the General Mechanical Engineering Curriculum.

Summer requirement: Six weeks industrial employment or ten hours solo flying.

### Senior Year

	CREDITS				
		Second Term	Third Term		
General Economics, Econ. 201, 202, 203	3	3	3		
Aircraft Engines, M.E. 421, 422, 423	3	3	3		
Airplane Design, M.E. 425, 426, 427	3	3	3		
Aerodynamics, M.E. 417, 418, 419	3	3	3		
Aeronautical Laboratory, M.E. 431, 432, 433	1	1	1		
Elements of Electrical Engineering II, E.E. 331, 332, 333	l 4	4	4		
Electives	3	3	3		
	_		-		
	20	20	20		

All seniors are required to go on the inspection trip as part of their curriculum.

#### MECHANICAL ENGINEERING III—FURNITURE OPTION

Professor F. B. Wheeler, Faculty Adviser.

The manufacture of furniture and wood products being one of the leading industries in North Carolina, the Mechanical Engineering Department offers a Furniture Option to prepare young men for this field of endeavor. In cooperation with the wood industries in the state and in the well-equipped shops, the student is given an aesthetic as well as practical and scientific insight into the art of designing and manufacturing furniture.

Freshman, Sophomore and Junior years identical with the General Mechanical Engineering Curriculum.

Summer requirement: Six weeks industrial employment.

#### Senior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
General Economics, Econ. 201, 202, 203	3	3	2 2 20, 110
Power Plants, M.E. 401, 402, 403		8	9
Mech. Eng. Lab. III, M.E. 407, 408, 400		ĭ	1
Furniture Design and Construction, M.E. 445, 446, 44		- 1	Ė
Elements of Elec. Eng. II, E.E. 331, 332, 333		7	3
Art Principles in Industry, Arch. 105		3	4
Engrg. Econ., I.E. 301		v v	Ų
		3	0
Electives	3	3	8
	_	-	_
	20	21	19

All seniors are required to go on the inspection trip as part of their curriculum.

# MECHANICAL ENGINEERING IV—HEATING AND AIR CONDITIONING OPTION

Professor R. B. Rice, Faculty Adviser.

The Mechanical Engineering Department offers this option because of the increasing interest in heating and air conditioning for the purpose of producing comfort, and furthermore because the engineering profession is largely responsible for the health and well-being of society through the effective construction and operation of heating and air-conditioning systems. Emphasis is placed on this phase of engineering through the application of fundamental principles to design, laboratory investigations and research, and through this means the student is given an opportunity to become familiar with standard practice in this field.

Freshman, Sophomore and Junior years identical with the General Mechanical Engineering Curriculum.

Summer requirement: Six weeks industrial employment.

### Senior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
General Economics, Econ. 201, 202, 203	3	2000.00	I MIT OF THE
Power Plants, M.E. 401, 402, 403		2	2
Heating and Air Conditioning Lab., M.E. 455, 456, 457	····· 3	3	3
Heating and Air Conditioning Lab., M.E. 405, 406, 407	1	1	1
Hydraulics Machinery, E.M. 331	3	0	Ď
Heating and Air Conditioning II, M.E. 451, 452, 453	3	ž	ě
Heating and Air Conditioning Design, M.E. 458, 459		ູ້	2
Elements of Elec. Engrg. II, E.E. 331, 332, 333		3	3
Elements of Elec. Engrg. 11, E.E. 331, 332, 333	4	4	4
Electives	3	3	3
	20	20	20

All seniors are required to go on the inspection trip as part of their curriculum.

### DIVISION OF TEACHER TRAINING

Professors: T. E. Browne, M.A., Director of the Division.

LEON E. COOK, M.S., Agricultural Education.

EDWARD W. BOSHART, M.A., Industrial Arts Educa-

tion, and Guidance.

KARL C. GARRISON, Ph.D., Psychology.

Associate Professors: J. K. Coggin, M.S., Agricultural Education.

L. O. ARMSTRONG, M.S., Agricultural Education.

J. WARREN SMITH, M.S., Industrial Education.

Assistant Professor: WILLIAM McGEHEE, M.A., Psychology.

Purposes.—The Division of Teacher Training at State College, operating as a local Division of the Division of Teacher Training of the Greater University of North Carolina, has imposed upon it the responsibility of training teachers of Agriculture, of Trades and Industries and of Industrial Arts. As further emphasizing the importance of the work, the State Board for Vocational Education has designated State College for training men as teachers of these subjects in white schools, and as counselors to students in choosing their vocations. Following this action, Federal appropriations to the State under the Smith-Hughes and the George-Deen Acts of Congress for such teacher training are allotted to the College.

Organization .- The Division offers curricula for training teachers of Agriculture, of Industrial Arts Education, of Industrial Education and Occupational Information and Guidance. The training includes four definite objectives. The first embraces the fundamentals of general education: English, Mathematics, the natural sciences-Biology, Chemistry, Physics-Economics, Sociology, and History. These subjects are given in the Basic Division of the College. Next are the technical subjects selected according to the professional course of the student: for Agricultural Teaching, in the School of Agriculture; for Industrial Arts and Industrial Education, in the School of Engineering. In the third group are the principles and methods of teaching and of vocational guidance. Educational Psychology here is obviously essential. The last objective is practical experience. To meet the requirements of the State Department of Public Instruction for teaching certificates, students, before graduation, observe and teach under the direction of the faculty of the Division in selected high schools. Moreover, experience in the respective occupations is required for those preparing to teach agriculture and the trades and industries.

Psychology.—General Psychology, giving an understanding of man's reactions to individual and social forces, constitutes one of the fundamentals of liberal education. Educational Psychology, applying the general principles to the problems of instruction, learning, and character building, becomes obviously essential in the equipment of teachers. Courses in Applied, Industrial, and Social Psychology of specialized nature meet the

needs of the various technological curricula. The Department of Psychology in view of its intimate relationship to the problems of teacher training is incorporated administratively in the Division of Teacher Training and at the same time functions instructionally throughout the Basic Division and the Professional Schools.

Requirements for Graduation.—For graduation in the Division of Teacher Training, the scholastic requirement in all curricula is the satisfactory attainment of at least 225 term credits with not fewer than an equal number of honor points.

Of the term credits required for graduation, a student must have at least 27 in Education, 18 in Language, 18 in the Natural Sciences, 18 in Social Science, 12 in Military Training or alternatives, 6 in Physical Education. Subjects must be taken as indicated in the several curricula.

Students who enter with advanced standing are allowed one point for each term credit accepted.

Further requirements consist of practice teaching in the subject and practical experience in the work to be taught as indicated above, or under the several Departments.

Degrees.—Upon the satisfactory completion of one of the curricula in Education, a student is awarded the degree of Bachelor of Science with the name of his special curriculum appended: in Agricultural Education, in Industrial Arts Education, in Industrial Education.

The Graduate Division of State College offers the Master's Degree to mature students of superior ability upon successful completion of its requirements. For the details, see the statement of the Graduate Division in this Catalog.

### Agricultural Education

#### LEON E. COOK

Object.—Agricultural Education is designed to prepare students for positions as teachers of vocational agriculture in the high schools of the State, and to qualify as such under the provisions of the Smith-Hughes and George-Deen Acts of Congress.

The curriculum is comprehensive in nature. It is, of course, essential that teachers have a good foundation in English and in the sciences basic to an understanding of agriculture. They should also have a sufficient understanding of the social sciences to appreciate the developments of contemporary life, with the emphasis on those having to do with agriculture and the rural community. Manifestly they should have a grasp of agriculture in all phases of importance in the State, including the improvement of the farm home and of the social as well as of the economic development of the rural community. Proficiency in teaching vocational agriculture depends upon comprehensive and thorough preparation in the professional field with emphasis on personal relationship and guidance, procedure in teaching both youth and adults, and in handling the various responsibilities of community service.

An adequate background of farm experience is essential for students looking forward to agricultural teaching, and experience in fields related to farming is desirable. A student should be farm reared or should have a minimum of two years of farm experience as a part of his preparation for teaching vocational agriculture.

Placement of Graduates.—There has been a strong demand for teachers of vocational agriculture with little difficulty in placing students who are qualified from the standpoint of personality, character, training, and farm experience. A coöperative arrangement with the supervisory staff in agricultural education of the State Department of Public Instruction facilitates the placement of students in situations adapted to their experience and training.

Successful teachers of agriculture are in demand for higher positions in the educational service and by other agencies for positions offering higher salaries than those paid in the teaching profession.

Graduate Study.—The Department provides opportunities for students, fully qualified, to do graduate work in Agricultural Education. Graduate students taking majors in this field should have completed the undergraduate work in Agricultural Education or the equivalent. Transfer students, or graduates in general agriculture who did not take the work in education, are required to complete 15 credits in education including Principles of Teaching and Methods of Teaching Agriculture, as pre-requisites to graduate study

CREDITS

## Curriculum for Teachers of Agriculture

### Freshman Year

COURSES	irst Term	CREDITS	/m2 * 2 /m
Composition, Eng. 101, 102, 103	irst 1 erm	Second Term	Third Term
General Inorganic Chemistry, Chem. 101, 102, 103	. 4	3 4	3 4
General Botany, Bot. 102	. 0	4	0
General Zoology, Zool. 101	. 4	0	ő
Algebra and Triconometry, Math. 111, 112	0	4	
Economic History, Hist. 101, 102, 103	. 3	3	3
Physical Geology, Geol. 120	. 0	ŏ	4 3 4 2
Physical Geology, Geol. 120 Military Science I, Mil. 101, 102, 103, or Alt	. 2	2	$\hat{\mathbf{z}}$
Fundamental Activities and Hygiene, P.E. 101, 102, 103	. 1	1	1
	17	21	21
Sophomore Year			
Farm Equipment, Agr. Eng. 202	. 0	3	0
Soils, Soils 201	. 0	0	4
General Economics, Econ. 201, 202	. 3	3	0
Agricultural Economics, Agr. Econ. 202	. 0	0	3
Physics for Agr. Students, Phys. 115	. 5	0	0
Plant Physiology, Bot. 221	. 0	0	-
Economic Zoology, Zool. 102		4	5 0
General Botany, Bot. 101	A	0	0
Introduction to Organic Chemistry, Chem. 221	. 0	4	ŏ
Animal Nutrition I, A.H. 202	. 0	3	ŏ
General Poultry, Poul. 201	. 3	ő	ŏ
Principles of Forestry For 111	2	ŏ	
General Horticulture, Hort. 202	. 0	0	3
General Horticulture, Hort. 202 General Field Crops, F.C. 202 Military Science II, Mil. 201, 202, 203, or Alt.	. 0	0	0 3 3 2 1
Military Science II, Mil. 201, 202, 203, or Alt	. 2	2	2
Sport Activities, P.E. 201, 202, 203	. 1	1	1
	01		
	21	20	21
Junior Year			
English, elective	. 3	0	3
English, elective	. 3	3	3 0
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308	. 3	3 0	0
English, elective	. 3 . 0 . 3	3 0	0
English, elective	. 3 . 0 . 3 . 0	3 0 3 0	0 3 0 3
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313	. 3 . 0 . 3 . 0	3 0 3 0 0	0 3 0 3
English, elective	. 3 . 0 . 3 . 0 . 0	3 0 3 0 0	0 3 0 3 3
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302	. 3 . 0 . 3 . 0 . 0	3 0 3 0 0	0 3 0 3 3 0
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302	. 3 . 0 . 3 . 0 . 0	3 0 3 0 0	0 3 0 3 3 0 0
English, elective	. 3 . 0 . 3 . 0 . 3 . 0	3 0 0 0 0 3 3 0	0 3 0 3 3 0 0 0
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302	. 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0	3 0 0 0 0 3 3 0	0 3 0 3 3 0 0 0 0
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213	. 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0	3 0 0 0 0 3 3 0	0 3 0 3 3 0 0 0
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213	. 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0	3 0 0 0 0 3 3 0	0 3 0 3 3 0 0 0 0
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213	. 3 . 0 . 3 . 0 . 0 . 3 . 0 . 3 . 0	3 0 0 0 3 3 3 0	0 3 0 3 3 0 0 0 0 0 4 3
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year	. 3 . 0 . 3 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	3 0 0 0 0 3 3 0 0 0 6 —	0 3 0 3 3 0 0 0 0 0 4 4 3 
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertility, Soils 221 Fertiliters, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year English, elective	. 3 . 0 . 3 . 0 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 0 . 3 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	3 0 0 0 0 3 3 0 0 0 6 - 18	0 3 3 3 0 0 0 0 0 4 4 3 
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 ***Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412. Secondary Education in Agriculture, Ed. 426	. 3 . 3 . 0 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 2 . 2 . 0	3 0 0 0 0 3 3 0 0 6 -18	0 3 0 3 3 0 0 0 0 0 4 4 3 - 19
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412 Secondary Education in Agriculture, Ed. 426 Principles of Teaching, Ed. 406	. 3 . 3 . 0 . 0 . 3 . 0 . 0 . 3 . 0 . 0 . 3 . 0 . 0 . 21	3 0 0 0 0 3 3 0 0 6 -1 18	0 3 0 3 3 0 0 0 0 4 4 3 
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412 Secondary Education in Agriculture, Ed. 426 Principles of Teaching, Ed. 406 Observation and Directed Teaching, Ed. 408	. 3 . 3 . 0 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 2 . 2	3 0 0 0 0 3 3 0 6 -18	0 3 0 3 3 0 0 0 0 0 4 4 3 -19
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English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412 Secondary Education in Agriculture, Ed. 426 Principles of Teaching, Ed. 406 Observation and Directed Teaching, Ed. 408 Methods of Teaching Agriculture, Ed. 411 Methods of Teaching Agriculture, Ed. 417 Evening Classes and Community Work, Ed. 411	. 3 . 3 . 0 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 3 . 0 . 0 . 3 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	3 0 0 0 0 3 3 0 0 6 -18	0 3 0 3 3 0 0 0 0 4 4 3 - 19
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 ***Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412 Secondary Education in Agriculture, Ed. 426 Principles of Teaching, Ed. 406 Observation and Directed Teaching, Ed. 408 Methods of Teaching Agriculture, Ed. 407 Evening Classes and Community Work, Ed. 411 ***Animal Hygiene and Sanitation, A.H. 353	. 3 . 3 . 0 . 0 . 3 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	3 0 0 0 0 3 3 0 0 6 	0 3 0 3 3 0 0 0 0 4 4 3 - 19
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412. Secondary Education in Agriculture, Ed. 426 Principles of Teaching, Ed. 406 Observation and Directed Teaching, Ed. 408 Methods of Teaching Agriculture, Ed. 407 Evening Classes and Community Work, Ed. 411 ***Animal Hygiene and Sanitation, A.H. 353 Agricultural Marketing, Agr. Econ. 411	. 3 . 3 . 0 . 0 . 3 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	3 0 0 0 0 3 3 0 6 -18	0 3 0 3 3 0 0 0 0 4 4 3 - 19
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English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412. Secondary Education in Agriculture, Ed. 426 Principles of Teaching, Ed. 406 Observation and Directed Teaching, Ed. 408 Methods of Teaching Agriculture, Ed. 407 Evening Classes and Community Work, Ed. 411 ***Animal Hygiene and Sanitation, A.H. 353 Agricultural Marketing, Agr. Econ. 411	. 3 . 3 . 0 . 0 . 3 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	3 0 0 0 0 3 3 0 6 -18	0 3 0 3 3 0 0 0 0 4 4 3 - 19
English, elective Educational Psychology, Ed. 303ab Visual Aids, Ed. 308 Teaching Farm Shop Work, Agr. Eng. 331, 332. Farm Management, Agr. Econ. 303 Farm Accounting, Agr. Econ. 313 Soil Fertility, Soils 221 Fertilizers, Soils 302 Rural Sociology, Rural Soc. 302 *Diseases of Field Crops, Bot. 301 Economic Entomology, Zool. 213 **Electives  Senior Year English, elective Materials and Methods in Teaching Agriculture, Ed. 412 Secondary Education in Agriculture, Ed. 426 Principles of Teaching, Ed. 406 Observation and Directed Teaching, Ed. 408 Methods of Teaching Agriculture, Ed. 407 Evening Classes and Community Work, Ed. 411 ***Animal Hygiene and Sanitation, A.H. 353 Agricultural Marketing, Agr. Econ. 411 Community Organization, Rural Soc. 413	. 3 . 3 . 0 . 0 . 3 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	3 0 0 0 0 3 3 0 0 6 -18	0 3 0 3 3 0 0 0 0 4 4 3 - 19

<sup>\*</sup> Diseases of Fruits and Vegetable Crops, Bot. 303, may be substituted for Bot. 301.

\*\* Options and electives must be chosen with the approval of the adviser and the electives must include at least 19 credits in Agriculture.

\*\*\* Common Diseases, A.H. 352, may be substituted for A.H. 353.

### Industrial Arts Education and Occupational Information and Guidance

### EDWARD W. BOSHART

Object.—For nearly half a century North Carolina State College of Agriculture and Engineering has had a large part in the preparations of individuals and the development of facilities to meet the problems related to the growth of industries throughout the State. As a part of this effort the training of teachers qualified to give instruction in the Industrial Arts is becoming more important. The emphasis of this Department is on phases of practical education which will give clearer meanings to life problems.

Organization.—The courses in Industrial Arts Education have been formulated to prepare teachers for the public schools where they will have charge of classes in elementary activities, shopwork, and drawing. The successful completion of this curriculum leads to the degree of Bachelor of Science in Industrial Arts Education and to the earning of an A-grade certificate for teaching subjects in this field.

The first two years of this curriculum are in line with the general plan of the College which emphasizes work of fundamental value. The last two years are given to work of a professional and specialized nature stressing analysis of occupations and trades, vocational guidance, and school-shop organization and administration.

Professional Objectives.—The curriculum is intended for those who wish to become teachers, heads of departments, supervisors, or directors of industrial arts in the public schools. Men with this preparation are those who, with continued study, become the leaders in their field.

Vocational Guidance.—One of the causes of failure in education and in after life lies in lack of early guidance, based on mental and physical qualities, personal aptitudes, and background toward the choice of an individual's lifework. Though as yet not perfectly developed, much has been learned in vocational guidance that is helpful in avoiding a misfit in education and in subsequent work. Teachers are those upon whom, working as collaborators with colleges and families, must fall the burden of these momentous choices. Through courses in tests and measurements and the requirements of various occupations, trades, and professions, State College is endeavoring to prepare teachers of high schools to become counselors of students in leading them through choice of congenial vocations toward successful and happy lives.

### Curriculum for Teachers of Industrial Arts

### Freshman Year

		C	
Q		CREDITS	m: 1 m
Courses	First Term	Second Term	Third Term
Composition, Eng. 101, 102, 103	3	3	3
Algebra, Trigonometry and Mathematics of Finance,			
Math. 111, 112, 113	4	4	4
General Chemistry, or Optional Science	4	4	4
Engineering Drawing II, M.E. 105, 106	3	3	0
Descriptive Geometry, M.E. 107	0	0	3
Industrial Arts, Ed. 106	3	3	3
Military Science I, Mil. 101, 102, 103, or		_	_
World History, Hist. 104	2	2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	_		
	20	20	20
			,
Sophomore Yea	ır		
Business English, Eng. 211, Advanced Composition,			
Eng. 222, Public Speaking, Eng. 231	3	3	3
General Physics, Phys. 105, 106, 107		4	4
Economic History, Hist. 101, 102, 103		3	
Freehand Drawing I, Pen and Pencil Drawing, Arch. 1		ŏ	3 0
Freehand Drawing II, Water Color, Arch. 102	. 5	ž	
Pencil Sketching, Arch. 100		õ	3
General Sociology, Soc. 202, 203		ž	ŏ
Forge, Foundry, and Pattern Making, M.E. 124, 125, 1		3 2	ž
Military Science II, Mil. 201, 202, 203, or Elective	2	<u>-</u>	2
Sports Activities, P.E. 201, 202, 203	ī	ī	ī
Elective		ō	0 3 0 2 2 1 3
	20	20	21
Junior Year			
Educational Psychology, Ed. 303a,b	3	3	0
Problems in Secondary Education, Ed. 344		ő	
General Economics, Econ. 201, 202, 203		8	3
Business Law, Econ. 307		ŏ	3 3 3 0
Labor Problems, Econ. 331	ŏ	ŏ	3
Project Design, Ed. 332	3	š	ŏ
Visual Aids, Ed. 308	0	ŏ	3
Machine Shop, M.E. 235, 236		š	3 0
Sheet Metal Shop, Ind. Ed. 206a,b		3	Ō
Carpentry, Ind. Ed. 208a,b		3	Ŏ
Electric Shop, E.E. 113	0	Ō	3
	18	18	18
Senior Year			
Field Work in Secondary Education, Ed. 433	0	3	0
Vocational Guidance, Ed. 420		ő	
Methods in Teaching Industrial Arts, Ed. 422		ŏ	3 0
Observation and Directed Teaching, Ed. 444		3	3
Industrial Relations	3	ő	3 0 3 3 3 0 3
Occupational Studies, Ed. 424		ŏ	š
Printing, Ind. Ed. 210a.b.c	3	3	3
Printing, Ind. Ed. 210a,b,c	3	ž	ž
Organization of Teaching Materials, Ed. 361	3	3	Ō
Electives		3	3
	18	18	18

## Curriculum for Teachers of Occupational Information and Guidance Freshman Year

Correcto	First Term	CREDITS Second Term	Third Term
Courses Composition, Eng. 101, 102, 103		Second 1 erm	3
Algebra, Trigonometry, and Mathematics of Finance,	-		
Math. 111, 112, 113	4	4 4	4
Science Economic History, Hist. 101, 102, 103		3	3
Occupations, Ed. 103	0	0	3
Historical Geology, Geol. 222	0	3	0
Physical Geology, Geol. 120 Military Science I, Mil. 101, 102, 103, or	4	v	V
World History, Hist. 104	2	2	2
Fundamental Activities and Hygiene, P.E. 101, 102, 103	1	1	1
	21	20	20
Sophomore Yea	ar		
Business English, Eng. 211, Advanced Composition,			
Eng. 222, Public Speaking, Eng. 231		3	3
Science General Sociology, Soc. 202, 203		4 3	4
Psychology, Psychol, 200	3	0	0
Social Psychology, Psychol. 290	0	3	
Psychology of Personality, Psychol. 291 Physiography, Geol. 303	0	0	0 3 5 2 1
Military Science II, Mil. 201, 202, 203, or Elective	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
*Electives	3	3	3
	19	19	19
Junior Year			
English or Modern Language	3	3	3
Educational Psychology, Ed. 303a,b	3	3	0
General Economics, Econ. 201, 202, 203 Business Law, Econ. 307		3	3
Problems in Secondary Education, Ed. 344		0	3
Visual Aids, Ed. 308	0	0	3
**American Government, Gov. 200, 201, 202 Occupational Studies, Ed. 424		3	0
*Electives		4	4
	19	19	19
	13	13	13
Senior Year			
Field Work in Secondary Education, Ed. 433	0	3	0
Vocational Guidance, Ed. 420		0	3
Methods of Teaching Occupations, Ed. 423		0	0
Measurements in Educational Psychology, Psychol. 468.	3	0	0
Social Recreation, P.E. 401* *Electives		0 12	3 9
Dicci) (2	12	12	
	18	18	18

<sup>\*</sup> Electives to be selected with aid of adviser to meet special needs of individual students.
\*\* Gov. 203 may alternate with Gov. 200.

#### Industrial Education

#### J. WARREN SMITH

Object.—In a greater degree than at any previous time, thought is now directed toward an extended program of trade-shop courses in Industrial Education for North Carolina high schools. Some of the factors which have contributed to this focus of attention are: unemployment, rising age for entrance to work, increasing school enrollment, and an extended school term. It is to prepare teachers for this field of service that this program is designed. A four-year course is outlined with the first two years running parallel with that of industrial arts, then specializing by following the outlined course during the last two years.

Positions For Graduates.—The student who completes this course will be prepared to teach in the all-day schools or the part-time or the evening classes, such as are supported by State and Federal funds for vocational education. At the present time, little difficulty should be encountered by the successful candidates in securing positions after graduation.

Journeyman Experience Required.— Candidates for degrees must have had at least two years of successful journeyman experience in the trade they wish to teach. Successful completion of this course leads to the degree of Bachelor of Science in Industrial Education. Men with journeyman experience who desire to take only professional courses, may enter as special students with the object of completing one or two years of training as outlined for the junior and senior years. For this work, no degree would be granted.

This Department is recognized as the official training Department of Industrial Education for the State Department of Education. The head of the Department serves as itinerant teacher-trainer for part-time, day-trade, and evening classes, and for the preparation of prospective teachers.

For the time being, the services of the Head of this Department will be devoted largely to itinerant-teacher training. However, as the demand for resident courses at State College designed to prepare shop teachers develops, the schedule can be adjusted to meet this demand.

### Curriculum for Teachers of Industrial Education

For freshman and sophomore years, see Industrial Arts Education

### Junior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Principles of Industrial Education, Ed. 327	0	3	0
*Shopwork (selected)	3	3	3
*Shopwork (selected)	3	3	0
Vocational Guidance Ed 420	0	ō	3
Organization of Teaching Materials, Ed. 361	3	3	3
Industrial Psychology, Psychol. 338	0	ō	3 3 3 3
Problems in Secondary Education, Ed. 344		Ó	3
Labor Problems, Econ. 331		Ö	ō
General Sociology, Soc. 202, 203		3	
Visual Aids, Ed. 308	. 0	ŏ	0 3
Visual Aids, Ed. 308 Mechanical Drawing, M.E. 211, 212, 213	2	ž	2
(Special students who have not had M.E. 105, 106, 10	7.	_	-
should substitute those courses for 211, 212, 213.	3		
†Electives		3	0
	20	20	20
Senior Year			
Local Survey; Planning a Program, Ed. 416	0	3	0
*Shopwork (selected)		3	Ó
Methods of Teaching Industrial Education, Ed. 422	0 3	ō	ŏ
Observation and Teaching, Ed. 444		3	3
Occupational Studies, Ed. 424		ō	3 3
Shop Planning and Equipment, Ed. 326	3	ŏ	ŏ
Furniture Designs and Rod-Making, M.E. 237, 238, 239, o		•	•
Machine Design, M.E. 411, 412, 413	3	3	3
†Electives		6	9
· — · · · · · · · · · · · · · · · · · ·		<u> </u>	
	18	18	18

<sup>\*</sup> Elective shopwork should be taken in fields available as Textiles, Woodshop, Machine Shop, Foundry, and Electricity.

† Elective courses must be approved by the faculty adviser.

### THE TEXTILE SCHOOL

THOMAS NELSON, Dean and Director of Textile Research

Organization.—The Textile School of North Carolina State College is organized for the purposes of administration into four departments: Yarn Manufacturing and Knitting, Weaving and Designing, Textile Chemistry and Dyeing, Textile Research.

The Textile School is organized to offer technical instruction, both graduate and undergraduate, in the production and finishing of textile products. It is also organized and equipped to conduct fundamental textile research and coöperates with the School of Agriculture, the United States Department of Agriculture in efforts to improve and develop new uses for the cotton fiber, and with the United States Institute for Textile Research.

Purpose.—The purpose of the Textile School is to educate men for professional service in Textile Manufacturing, Textile Management, Textile Chemistry and Dyeing, Yarn Manufacturing, Knitting, Weaving and Designing; to develop their capacities for intelligent leadership; to equip them to participate in commercial and public affairs; to aid in the development of the textile industry and its commerce through research and experimentation; to coöperate with the textile mills of the State in gaining, through scientific research, information that will improve the quality and value of manufactured products and increase technical skill.

Occupations.—Never before in America have more opportunities been offered to young men of North Carolina and the South than are available today to graduates of the Textile School.

North Carolina is the largest textile manufacturing State in the South and has more mills than any other State in America. It has the largest towel, damask, denim, and underwear mills in America; and it has more mills that dye and finish their own products than any other Southern State. A great diversification of manufactured textile products is being made in cotton, rayon, silk, wool, and worsted.

The courses of instruction are arranged and grouped so that students may get the best results from their work, and accumulate the necessary knowledge, which together with actual experience after graduation, enables them to fill such positions as the following:

Owners of mills

Presidents and vice presidents of mills and other textile establishments Secretaries and treasurers of mills

Managers, superintendents, and department foremen in cotton, rayon, woolen, silk, and hosiery mills

Superintendents and foremen in mercerizing, bleaching, dyeing, and finishing plants

Designers and analysts of fabrics

Technical demonstrators in the dyestuff industry

Textile chemists

Textile cost accountants in mills

Purchasing agents for mills

Salesmen of machinery, yarn, cloth, rayon, dyestuffs, and chemicals

Positions in yarn and fabric commission houses and with fabric converters

Specialists in Government service

Representatives for manufacturers of machinery, rayon, dyestuffs, and mill supplies.

Degrees.—Upon the completion of any one of the curricula in Textiles the degree of Bachelor of Science in Textiles is conferred.

The degree of Master of Science in Textiles is offered for the satisfactory completion of one year of graduate study in residence. Candidates for the degree of Master of Science in Textiles enter and are enrolled in the Graduate Department of the College.

The professional degree of Master of Textiles may be conferred upon graduates of the Textile School after five years of professional practice in charge of important work and upon the acceptance of a satisfactory thesis.

Requirements.—The requirements for graduation in the Textile School are the satisfactory completion of all the courses in one of the prescribed curricula (see tabulations of curricula on the pages following), a total of not fewer than 230 term credits, with not fewer than 230 honor points.

Of the minimum of 230 term credits required for graduation in the Textile School, 144 are common to all curricula; that is, 12 term credits in Mathematics, 18 in Language, 27 in Economics and Psychology, 12 in Chemistry, 15 in Physics, 12 in Engineering, 6 in Agriculture, 24 in General Textile, 12 in Military Training or Social Science alternatives, and 6 in Physical Education. Each of the curricula permits election of 18 term credits.

Inspection Trip.—Each student is required to make an inspection trip during his senior year to mills making various classes of fabrics, also to bleaching, dyeing, finishing, and hosiery plants. The trips are made in chartered busses.

Curricula.—The freshman and sophomore work is the same for all students in the Textile School. The training is general, and gives the student a good opportunity to make a wise choice in the selection of the particular field in which he desires to specialize. Five curricula are offered:

- 1. Textile Manufacturing
- 3. Textile Chemistry and Dyeing
- 2. Textile Management
- 4. Weaving and Designing
- 5. Yarn Manufacturing

Textile Manufacturing and Textile Management offer work in all Departments of the Textile School; these are therefore general curricula with one placing more emphasis on manufacturing, the other, more emphasis on economics.

Students who select Textile Chemistry and Dyeing, Weaving and Designing, or Yarn Manufacturing devote a larger percentage of their time to specialization in one Department of the Textile School.

Textile Curricula for University and College Graduates.—Selected courses leading to the degree Bachelor of Science in Textiles are offered to graduates of universities and standard colleges. These are arranged in accordance with the vocational aim of the individual student and in the light of credits presented from the institution from which the student has been graduated, subject to the approval of his adviser and the director of instruction. In cases where the student presents enough credits which may be used for courses required in his curriculum, he may be graduated B.S. in Textiles within one year. In no case should it take more than two years to complete the work for the degree.

Short Course for Textile Mill Men.—Instruction in yarn manufacturing, weaving, designing, fabric analysis and dyeing, lasting two weeks in the second term, is offered for textile mill men who wish to make a short and intensive study of any of these subjects. The subject matter will be selected to suit the requirements of each individual.

### Yarn Manufacturing and Knitting

Professor J. T. HILTON, Head of Department Assistant Professor J. G. LEWIS; Instructor G. R. CULBERTSON

Purpose.—The purpose of this Department is to instruct students in the theory and practice of producing yarns and hosiery; to cooperate with mills in solving manufacturing problems through research and experimentation; and to manufacture the yarns used in the weave room. This Department is located on the top floor of the Textile Building.

Opening and Picking.—The opening and picking equipment is placed in a separate room and consists of bale breaker, vertical opener, C.O.B. and condenser, break picker, and finisher lapper.

Carding and Spinning.—This equipment occupies two rooms. The larger one is used for instruction. The machinery consists of cards, regular and controlled-draft drawing frames, fly frames, spinning frames, warper, spooler, winders, regular and fancy twisters, and a complete unit of combing machinery for the production of fine yarns. The smaller room contains a complete unit of carding and spinning machinery, including several types of long-draft spinning; it is used as an experimental laboratory. Thus student instruction and experimental work do not conflict. Both rooms are equipped with Parks-Cramer humidifiers.

Woolen.—This equipment, placed in a separate room on the basement floor, consists of a complete woolen unit made by Davis and Furber, and a Universal winder.

Knitting.—This department is equipped with a variety of circular knitting machines for making children's hose, ladies' hose, and men's plain and fancy half-hose. It is also equipped with a Wildman single head, single unit full-fashioned hosiery machine, Merrow sewing machine, loopers, bottle bobbin winder, Universal winder, balances, etc.

Research Laboratory.—This laboratory contains a single strand tester, Mullen tester, yarn and cloth testing machines with autographic recorder, twist counter, crimp tester, conditioning oven, and other necessary apparatus to test cotton and rayon yarns and fabrics for moisture content, twist and tensile strength.

The curriculum in Yarn Manufacture is listed with the other Textile curricula.

### Weaving and Designing

Professor T. R. HART, Head of Department

Associate Professor W. E. SHINN; Instructors G. B. PEELER, W. P. CRAWLEY

Purpose.—The purpose of this department is to instruct students in the theory and practice of weaving and designing fabrics ranging from simple print cloths to elaborate leno and jacquard creations, to coöperate with the home economics departments of North Carolina colleges in creating consumer interest in textile products, to coöperate with mills in solving manufacturing problems through research and experimentation. This department is located on the second floor of the Textile Building.

Weave Room.—This room contains a larger variety of looms than can be found in any textile mill. These have been carefully selected so that the students may obtain a knowledge of the different cotton, rayon, and silk looms made in the United States. It also contains looms to produce such fabrics as print cloths, sheetings, denims and twill fabrics, ginghams, fancy shirtings, dress goods, and plush, as well as fancy leno and jacquard fabrics. The weave room has been modernized so that the students can be trained in the technique of manufacturing fancy cotton, rayon, and combination fabrics on automatic, dobby and jacquard looms. Other equipment in the weave room includes Universal filling winders, braiders and Bahnson humidifiers.

Warp Preparation.—Short warps in the Textile School are made on the silk and rayon equipment in this department which consists of a silk and rayon skein winder and a combination warper and beamer. Other equipment includes a slasher and cotton beaming frame.

Designing and Fabric Analysis.—A full equipment of design boards for single and double cloths is provided in the classrooms. Dies for cutting

samples and different makes of balances and microscopes are provided for the analysis of fabrics. Other designing equipment includes an enlarging camera, card cutting pianos and card lacing equipment.

The curriculum in Weaving and Designing is listed with the other Textile curricula.

# Textile Chemistry and Dyeing

# Professor A. H. GRIMSHAW, Head of Department Instructor A. C. HAYES

Purpose.—The purpose of this department is to instruct students in the theory and practice of dyeing, printing and finishing yarns and fabrics; to conduct experiments; to coöperate with the mills of the State in solving problems relating to the dyeing and finishing of textile products; to dye the yarns used in the weave room to produce fabrics. This department is located on the basement floor of the building.

Equipment.—The Dye Laboratory is fitted up with work tables, balances, steam baths, drying oven, and other apparatus for experimental dyeing, dye testing, color matching, and the testing of dyed samples by acids and alkalies. It also contains roller, spray and screen printing apparatus.

The Dye House is equipped with kier; raw stock, package, skein and hosiery dyeing machines, a cloth dyeing machine of the creel type; hydroextractor; raw stock dryer and other equipment needed in the dyeing of larger quantities of material and in giving instruction in boiling out, bleaching and dyeing raw stock, skeins, warps, hosiery, and piece goods.

The Research Laboratory contains microscopes, photo-micrographic cameras and projector, fadeometer, pH apparatus, viscosimeters, extractors, separator, analytical balances, electric oven, equipment for testing oil and finishing compounds, as well as the analytical equipment generally used by textile chemists. It also contains a dark room fully equipped for photographic work.

The curriculum in Textile Chemistry and Dyeing is listed with the other Textile curricula.

#### Textile Research

# THOMAS NELSON, Director

For a number of years the Division of Cotton Marketing, United States Department of Agriculture, has stationed a representative at the Textile School to coöperate in producing new uses for cotton. Consumer packages for farm products, cotton fabrics for road making, cotton bagging, foundation fabrics for hooked rugs, and cotton bagging for sugar are some of the products of this coöperative arrangement.

The United States Institute for Textile Research has selected the Textile School as the location for its research project on warp sizing of spun rayon and cotton-spun rayon combination yarns.

The Textile School staff devotes considerable time each year to problems submitted to the School by mills.

The equipment available for research is listed under the Departments.

# Curriculum in Textile Manufacturing

# \*Freshman Year

		CREDITS	
Courses	First Term	Second Term	Third Term
Composition, Eng. 101, 102, 103		3	3
Physics for Textile Students, Phys. 111, 112, 113	4	4	4
Algebra, Trigonometry, Mathematics of Finance,	4	4	4
Math. 111, 112, 113	I	1	1
Engineering Drawing I, M.E. 101, 102, 103	2	2	2
Textile Principles, Tex. 101, 102, 103	2	2	2
Military Science I, Mil. 101, 102, 103, or World History, Hist. 104	2	2	2
World History, Hist. 104 Fundamental Activities and Hygiene, P.E. 101, 102, 103	. Î	í	î
I dittelligated life living and any stone, I have a var a var			_
	19	19	19
*Sophomore Ye	ar		
Economic History, Hist. 101, 102, 103		3	3
Decorative Drawing Arch 106 or		0	0
Light in Industry, Phys. 311	3	0	0
Tight in Industry Phys 211 or			
Decorative Drawing, Arch. 106 General Inorganic Chemistry, Chem. 101, 102, 103	4	0	3 4
Cotton, Cotton Classing II, F.C. 201, 212	3	3	õ
Vorn Monufacture I Toy 201 203 205	1	0	4
Power Weaving, Tex. 231, 232, 234	1	3	0
Fabric Structure and Analysis, Tex. 236, 237	0	2 1	2 1
Power Weaving, Tex. 231, 232, 234 Fabric Structure and Analysis, Tex. 236, 237 Knitting I, Tex. 207, 208, 209, 211 †Military Science II, Mil. 201, 202, 203	2	2	2
Sport Activities, P.E. 201, 202, 203	1	1	1
	21	19	20
		10	20
Junior Year			
English, or Modern Language General Economics, Econ. 201, 202, 203	3	3	3
General Economics, Econ. 201, 202, 203	3	3	3
Textile Calculations I, Tex. 345	0	0	3 1
Dobby Weaving, Tex. 331, 332, 333, 335	1	1	4
Eshwia Design and Analysis I Toy 241 249		3	0
Dyeing I. Tex. 371, 372, 373, 375	4	1	1
Fabric Testing, Tex. 343	0	0 3	1 3
Electives	···· -	-	-
	18	18	19
Sorier Ver-			
Senior Year			
Industrial Management, Personnel Management,	3	3	3
Econ. 325A, 326A, 333 Introduction to Psychology, Psychol. 200	3	0	0
Applied Psychology, Psychol. 302	0	3	Ó
Industrial Psychology, Psychol. 338	0	σ	3
Yarn Manufacture IV, Tex. 401, 402, 403, 405	4	1	1
Leno Design, Tex. 441  Dobby Design, Tex. 443	3 0	3	0
Jacquard Design, Tex. 445	0	0	3
Cotton and Rayon Weaving, Tex. 431, 432, 433, 435 Cotton and Rayon Dyeing I, Tex. 471, 472, 473, 474	1	1	4
Cotton and Rayon Dyeing I, Tex. 471, 472, 473, 474	1	4	1
Fabric Analysis, Tex. 451, 452		2 3	0 3
IIICCUTCS			
	20	20	18

<sup>\*</sup> Freshman and sophomore years for all Textile curricula.

 $<sup>\</sup>dagger$  Or 6 credits in one or two of the following Departments: Economics, Psychology, History, Modern Language, Sociology.

# Curriculum in Textile Chemistry and Dyeing

The freshman and sophomore years are the same as for Textile Manufacturing.

# Junior Year

Courses First Term Second Term The	ird Term 3 3
English or German 3	3 3
	3
General Economics, Econ. 201, 202, 203	
Textile course 0	3
Qualitative and Quantitative Analysis, Chem. 211, 212, 223 4 4	4
Dyeing II, Tex. 377, 378, 379, 381, 382	2
Fabric Testing, Tex. 343	1
Electives 3	3
18 18	19
Senior Year	
Industrial Management, Personnel Management,	
Econ. 325A, 326A, 333	3
Organic Chemistry, Chem. 421, 422, 423	4
Textile course	0
Textile Course 0	3
Textile Microscopy, Tex. 489, 490 1	0
Textile Printing, Tex. 483, 484, 485, 487	1
Cotton and Rayon Dyeing II, Tex. 477, 478, 479, 480, 481 2 5	5
Electives 6 3	3
20 20	19

# Curriculum in Yarn Manufacturing

The freshman and sophomore years are the same as for Textile Manufacturing.

# Junior Year

Buildi 10mi			
	D: . #	CREDITS	<i>m</i> : <i>m</i>
Courses	First Term	Second Term	Third Term
English or Modern Language	3	3	3
General Economics, Econ. 201, 202, 203	3 3	3	3
		3	Ō
Accounting I, Econ. 301, 302	ŏ	3	3
Yarn Manufacturing Lab. III, Tex. 307, 808, 309	2	2	ž
Dobby Weaving, Tex. 331, 332, 333, 335	···· ī	ī	0 3 2 4 1
Dyeing I, Tex. 371, 372, 373, 375		ĩ	i
Electives		3	ã
Electives	····· <u> </u>		
	19	19	19
Industrial Management, Personnel Management, Econ. 325A, 326A, 333 Introduction to Psychology, Psychol. 200 Applied Psychology, Psychol. 302 Industrial Psychology, Psychol. 338 Machine Shop II, M.E. 227, 228, 229 Elements of Electrical Engineering I, EE. 321, 322 Textile Calculations II, Tex. 413 Yarn Manufacturing V, Tex. 407, 408, 409, 411, 412 Manufacturing Problems, Tex. 415	3 0 0 1 0	3 0 3 0 1 3 0 5	3 0 0 3 1 3 0 2 3 3
Electives		3	3
	21	18	18
	21	10	10

# Curriculum in Textile Management

The freshman and sophomore years are the same as for Textile Manufacturing.

## Junior Year

		CREDITS	
Courses	First Term	Second Term	Third Term
English or Modern Language	3	3	3
Accounting I. Econ. 301, 302, 303		3	
General Economics, Econ. 201, 202, 203		3	3
Yarn Manufacture II, Tex. 301, 302, 303, 304		4	ĭ
Textile courses		2	5
Electives		3	3 3 1 5
	······		
	18	18	18
Senior Year			
Industrial Management, Personnel Management,			
Econ. 325A, 326A, 333	3	3	3
Marketing Methods and Sales Management,			
Econ. 311, 312, 313	3	3	3
Introduction to Psychology, Psychol, 200	3	0	0
Applied Psychology, Psychol. 302	0	3	Ó
Industrial Psychology, Psychol, 338	0		3
Textile courses		0 8	3 7 3
Electives		3	3
	20	20	19
Textile courses to be selected from:			
Fabric Design and Analysis I, Tex. 341, 342	3	3	0
Dobby Weaving, Tex. 331, 332, 333, 335	1	1	4
Dyeing, Tex. 371, 372, 373, 375		1	1
Textile Calculations, 345 or 413		or	3
Yarn Manufacture IV, Tex. 401, 402, 403, 405	4	1	1
Leno Design, Tex. 441	3	0	0
Dobby Design, Tex. 443	0	3	0
Jacquard Design, Tex. 445		0	3
Calculating Fabric Costs, Tex. 344		3	0
Cotton and Rayon Weaving, Tex. 431, 432, 433, 435		1	4
Cotton and Rayon Dyeing, Tex. 471, 472, 473, 474	1	4	1
Fabric Analysis, Fabric Testing, Tex. 451, 452, 343	2	2	1
Manufacturing Problems, Tex. 415		0	3
Color in Woven Design, Tex. 455, 456	3	3	0
Wool Manufacture, Tex. 416, 417, 418	1	4	0

# Curriculum in Weaving and Designing

The freshman and sophomore years are the same as for Textile Manufacturing.

Junior Year	
English or Modern Language	3
English or Modern Language	3
General Economics, Econ. 201, 201, 201	J
Appreciation of Fine Arts, Arch. 111, 112, or	^
Textile courses 3 3 Textile Calculations I, Tex. 345 0	Ū
Textile Calculations I, Tex. 345	3
Fabric Design and Analysis I, Tex. 341, 342	0
Jacquard Design, Tex. 445	3
Jacquard Design, Tex. 445       0       0         Dobby Weaving, Tex. 335, 337, 338, 339       2       2	5
Dobby Weaving, Tex. 335, 337, 338, 339       2       2         Fabric Testing, Tex. 343       0       0         Floating 3       3       3	1
Flectives 3 3	3
Electives	_
17 17 2	1
11 11 2	1
Senior Year	
Industrial Management, Personnel Management,	
From 325 A 326 A 333	3
Econ. 325A, 326A, 333	ň
Applied Psychology Psychol 302 0 3	ň
Applied 1 sychology, 1 sychol, 505 minimum	ž
Industrial Psychology, Psychol. 338 0	0
Leno Design, Tex. 441	ŭ
Dobby Design, Tex. 443 0 3	Ū
Fabric Design and Analysis II, Tex. 453	3
Jacquard Design Laboratory, Tex. 447, 448, 449 1	1
Color in Woven Design, Tex. 455, 456	0
Cotton and Rayon Weaving, Tex. 435, 437, 438, 439	5
Fabric Analysis, Tex. 451, 452	0
	3
Electives 3 3	_

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# The Graduate School of the University of North Carolina

## STATE COLLEGE DIVISION

WILLIAM WHATLEY PIERSON, JR., Dean, Chapel Hill R. F. Poole, Chairman of Committee on Graduate Instruction at State College

# Organization

Purposes.—Graduate Instruction in this institution is organized to formulate and develop graduate study and research in the fields primarily of Agriculture, Engineering, and Textile Manufacturing, and the training of teachers of these subjects. The urgent need for graduate instruction leading to research in these fields is recognized by the leaders in the occupations which depend upon the development of these branches of industry. State College, therefore, offers training for teachers, investigators, and leaders in Agriculture, Engineering, and Manufacturing. Moreover, unless graduate study and research in the technological and related fields are provided, the institutions of higher learning in this section of the country will look elsewhere for trained men, whereas there should be a fair balance of such men from every section of the country.

Administration.—Subject to the final approval of the Faculty Council, graduate work is directed by a Committee on Graduate Instruction. All subjects to be taken by graduate students are passed upon by the College Committee on Courses of Study. Actual instruction is given by the regular members of the faculty under the supervision of the Director of Instruction, the Head of the Department, or the Dean of the School in which the student is working.

Facilities.—State College offers exceptional facilities and opportunities for research. The Agricultural Experiment Station of North Carolina, the Engineering Experiment Station, and the Research Laboratories of the Textile School are integral parts of the College. In the Textile School, besides the research carried on by regular members of the staff, the Bureau of Agricultural Economics and other Bureaus at Washington have, for some years, used the facilities of the School for special research. Graduate students have the advantages offered by all these agencies in addition to the regular laboratories used for instruction.

In its undeveloped resources and raw materials, as well as in its going concerns in business and industry, in its varied topography and products, North Carolina is a rich field for research. The State is already imbued with a spirit of progress stimulating to intellectual growth.

Scholarships and Fellowships.—The College offers annually graduate fellowships and a number of teaching and research fellowships. Besides these, special fellowships are supported by large business organizations.

College Fellowships give tuition and a stipend of \$450 an academic year, paid in nine equal installments, a month apart, beginning October 25. The holder of a fellowship may be required to render a maximum of ten hours a week of service to the department in which he is specializing.

Teaching and Research Fellowships give \$600 or more an academic year. The holder of one of these fellowships may not carry more than half a full schedule of graduate studies. The rest of his time must be given to teaching in classroom or laboratory, or to research in one of the Experiment Stations.

The Honor Society of Phi Kappa Phi Fellowship, State College Chapter, offers \$50 annually, preferably to a member of the Society, to assist in promoting research, and advanced training of worthy students.

Special Fellowships have for some years been maintained by business or manufacturing organizations desirous of having research made on certain problems pertaining to their interest. Some organizations maintaining these scholarships have been the National Fertilizer Association, the N. V. Potash Export My., the American Cyanamids Company, the Superphosphate Institute, E. I. DuPont de Nemours and Company, the Niagara Sprayer and Chemical Company, Eli Lilly and Company, the American Potash Institute, and the Northwestern Yeast Company. The stipends afforded by these fellowships have varied from \$720 to \$1,500 for twelve months. It is hoped that some of these may be available every year.

## ADMISSION AND DEGREES

## Degrees in Residence

Master of Science in Agriculture Master of Science in Education
Master of Science in Engineering Master of Science in Textiles
Master of Science (pure, not applied) Master of Science (in specialized field)

Admission.—1. A candidate for admission to graduate study must present an authorized transcript of his collegiate record as evidence that the candidate holds a bachelor's degree for a four years' undergraduate course from a college whose standards are equivalent to those of State College.

- 2. Admission to courses of graduate work does not necessarily mean that a student may immediately become a candidate for an advanced degree. If the student is not prepared to do graduate work at once, he may pursue undergraduate courses which will best fit him for advanced work.
- 3. A member of the senior class of State College may, upon the approval of the Committee on Graduate Instruction, register for graduate courses to fill a roster of studies not to exceed eighteen credits for any term.

#### Regulations

Credits.—1. For all Masters' degrees, forty-five term credits are required, a credit being given for each hour of class work successfully completed

through a term. Besides the term credits, for all Masters' degrees a thesis must be written and approved.

- 2. Not more than ten of the academic credits required for a graduate degree will be accepted from other institutions.
- 3. No graduate credit will be allowed for excess undergraduate credit from any other institution.

Courses of Study.—As designated in the College Catalog under Description of Courses, the courses numbered 500 to 599 are for graduate students only, and those numbered 400 to 499 are for graduates and advanced undergraduates.

The program of the student shall contain at least twelve credits in courses of the 500 group. Nine credits in this group may be obtained in approved research courses. A maximum of 33 credits may be gained in the 400 group. A minimum grade of "B" must be made on all courses to obtain graduate credit.

The student's program of studies, made under the supervision of the student's adviser, must be approved by the Dean of the School in which the student is specializing and finally by the Committee on Graduate Instruction.

Language Requirements.—A reading knowledge of at least one modern foreign language is required of candidates for the Master of Science degrees. The knowledge will be tested by a special examination by the language department. For the Master's degree in a special department, as Master in Agronomy, no foreign language is required.

Thesis.—A graduate student, candidate for the Master's degree, must prepare under the supervision of the student's adviser a thesis upon a subject, approved by the adviser, in the field of the student's special work. Two copies, the original and the first carbon, of the completed thesis must be presented to the Committee on Graduate Instruction at least one month before the degree is awarded.

Residence.—A candidate for a Master's degree is required to be in residence at the College, pursuing graduate work, one full academic year of three terms. The candidate is not permitted to take course leading to forty-five credits in a shorter time.

Six summer schools of six weeks in residence at the College are reckoned sufficient to fulfill the residence requirement. By specific approval of the Committee on Graduate Instruction, one summer period may be spent away from the College if devoted to the preparation of the thesis required for graduation.

In special cases it is possible for graduate students to do twelve weeks work during a summer session, provided instructors will remain at the College throughout the summer. Under these provisions a minimum of four summer sessions, two of twelve weeks and two of six weeks, are required for residence.

Class Work and Examinations.—As a mature student admitted to graduate study only after ability and earnestness are established, the graduate student is expected to assume greater individual responsibility, and since specializing, to work in a more comprehensive manner than the undergraduate. However, in preparation, in attendance, and in all the routine of class work, the graduate student is subject to the regulations observed in other divisions of the College.

Besides the examination in class, the graduate student, at least two weeks prior to graduation, has a general examination on his work.

# Professional Degrees

Master of Agriculture Master of Textiles Ceramic Engineer Chemical Engineer Civil Engineer Electrical Engineer

#### Mechanical Engineer

Significance.—The professional degrees are not honorary; they are tests of ability and testimonials of accomplishment. To merit the professional degree, a candidate must, in his thesis, demonstrate his ability to attack and to solve a new problem of sufficient complexity to require distinctly original processes of thought, and the solution of which shall make, however small, yet a real contribution to his profession. The record of his work must demonstrate his power to conceive, to plan, to organize, to carry through to completion a project of considerable magnitude. The candidate should quite obviously have grown professionally since his graduation and evince intellectual vitality to guarantee the continuance of his growth.

Requirements.—1. A professional degree may be conferred upon a graduate of State College in the School in which the candidate received the Bachelor's degree; the degree of Master of Agriculture may be conferred upon graduates of other institutions who have performed outstanding professional service in agriculture for the State of North Carolina for a continuous period of not less than five years.

2. The degree of Master of Agriculture may be conferred upon graduates of State College after five years of service in agriculture, upon the acceptance of a thesis.

The degree in Engineering or in Textiles may be conferred upon graduates of State College after five years' professional practice in responsible charge of important work, upon the acceptance of a thesis on a subject related to the practice in which the applicant has been engaged.

- 3. Application for the degree must be presented to the Committee on Graduate Instruction not less than nine months before the degree may be conferred.
- 4. With the application for a degree, the candidate must present, as preliminary basis for the degree, (1) the subject of a thesis he purposes

to write, and (2) a statement in outline of his professional work since graduation, both of which must be approved by the Committee.

- 5. The completed thesis must be submitted, on or before April 1, to the committee for consideration, and with it a detailed statement, duly certified, of the candidate's professional work since graduation, upon which, in addition to the thesis, the degree is to be awarded.
- 6. Upon notification that thesis and work have been approved by the Committee as worthy basis for the degree, the candidate shall, upon a specified date, appear before the Committee for oral or written examination on his work and his thesis. Upon the recommendation of the candidate's committee, the examination may be given through correspondence.

#### Fees

The Graduate student will pay \$5.00 when he matriculates and \$3.00 a credit hour for all courses.

The Professional candidate will pay \$10.00 when he matriculates and \$15.00 for his diploma.

Correspondence about graduate work should preferably be addressed to the Chairman of the Committee on Graduate Instruction.

# DIVISION OF COLLEGE EXTENSION

EDWARD W. RUGGLES, Director

Purpose.—The College Extension Division is organized to carry the practical and cultural advantage of college studies to persons who cannot attend classes on the campus, and to groups and communities that may profit by the service offered through the following means.

Extension Classes are organized where at least fifteen persons are interested and willing to take up the same subject. Such matters as the distance from the college, the nature of the subject, and the availability of instructors must be taken into consideration.

Correspondence Courses for college credit are offered in Agronomy, Animal Husbandry, Horticulture, Soils, Poultry, Agricultural Economics, Rural Sociology, Chemistry, Education, Economics, English, Geology, History, Architectural Engineering, Ceramic Engineering, Mechanical Engineering, Mathematics, Modern Languages, Sociology, Safety and Zoölogy. The list of these courses is being added to as rapidly as possible. Complete information concerning them is included in the Bulletin of Correspondence Courses.

Correspondence Courses of a practical nature are offered in Business English, Mathematics, Industrial Electricity, Land Surveying, Plumbing, Engineering Drawing, Air Conditioning, Heating and Ventilation, Building and Estimating, Sheet-metal Pattern Drafting, Municipal Administration, Poultry, Business Law, Diesel Engines, and Vegetable Gardening. In addition, the courses in Ceramic Engineering may be taken as practical where no credit is desired.

Short Courses are offered by the College Extension Division to tie up the facilities of the several Schools of State College with the trades and industries of North Carolina into a permanent educational program. In carrying out this program, short courses of a practical nature are offered every year which are increasing in popularity. During the present school year (1939-40), the following short courses and institutes are scheduled: Air Conditioning, Electrical Meters and Relays, Engineers, Surveyors, Plumbing and Heating Contractors, Gas-Plant Operators, Water-Works Men, Retail Coal Merchants, Electrical Contractors, Street Superintendents, Amateur Photographers, Sanitarians, Building Inspectors, and a Safety School for Truck Operators. Additional courses are being added as the demand arises.

College Extension Lectures by members of the faculty and concerts by the College musical organizations are available to any high school, civic club, woman's club, science club, agricultural or engineering meeting or organization, desiring to put on a good lecture or musical program.

Reading Courses are offered to graduates and undergraduates who desire to continue their intellectual growth and to keep abreast of the advances made both in their specific field and in relating fields.

Bulletins describing the various functions of the Division will be gladly supplied on request. Write to Edward W. Ruggles, Director, College Extension Division, North Carolina State College, Raleigh, North Carolina.

Full Information.—Any person interested in extension classes or correspondence courses should write to the College Extension Division, requesting the Extension Bulletin, which contains complete information concerning methods of instruction, fees, and the conditions upon which College credit will be granted.

# THE SUMMER SESSION

Time; Work.—Beginning June 10, 1940, the Summer Session will continue six weeks. The work, directed by the regular College Officers of Administration and conducted largely by the Faculty, maintains the College standards and warrants College credit toward degrees.

Advantages.—Special advantages are offered those desiring to get teachers' certificates, or to renew or raise the grade of a certificate; also to teachers with ambition to advance culturally and professionally. College students may remove conditions or gain additional credits. Applicants for admission to College may add needed credits for entrance.

Cultural Courses.—Although the Summer Session at State College conducts courses specifically technical in Agriculture, Engineering, and Textile, and confines its Teacher Training to these departments, general courses of broad cultural value are offered in English, Modern Languages, Mathematics, Chemistry, Physics, Botany, Zoölogy, and the Social Sciences.

Full Information regarding the Summer Session is given in the Summer Session issue of *State College Record*, which may be obtained from W. L. Mayer, Registrar, State College Station, Raleigh.

## IV. DESCRIPTION OF COURSES

# AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

## Agricultural Economics

# Courses for Advanced Undergraduates

# Agr. Econ. 202. Agricultural Economics.

0 - 0 - 3

Required of sophomores in Agriculture. Prerequisite: Econ. 205 or Econ. 201-202-203.

A study of the economics of agricultural production, the marketing of farm products, farm credit, land tenure and other major economic problems of the farmer.

Messrs. Clement, Forster, Leager.

## Agr. Econ. 212. Land Economics.

0-3-0

Required of sophomores in Forestry and Wildlife Conservation and Management. Prerequisite: Econ 205 or 201-202-203.

The problems of land economics including land classification and land use with special emphasis on forest land, land ownership and control, the principles of land valuation, policies of land settlement and development, the taxation of forest lands.

Mr. Forster.

# Agr. Econ. 303. Farm Management I.

0 - 0 - 3

Required of juniors in Agricultural Economics, Agriculture and Vocational Education. Prerequisite: Econ. 205 or 201-202-203.

The principles involved in the successful operation of the farm, farm planning, management of labor, farm work programs, use of machinery, and farm administration.

Mr. Forster.

## Agr. Econ. 313. Farm Accounting.

0-0-3

Required of juniors in Vocational Agriculture. Prerequisite: Econ 205.

The practical aspects of farm accounting, preparation of inventories of farm property, simple financial statements, method of keeping farm records, analysis and the interpretation of results obtained from farm business transactions.

Mr. Leager.

## Agr. Econ. 322, 323. Grades, Standards, and Inspection

0 - 3 - 3

Elective for seniors in Agricultural Economics. Prerequisite: Econ. 205 or 201-202-203.

History of the grades and standards of important agricultural products, together with the technic of inspection.

Mr. ......

# Agr. Econ. 332. History of the Agricultural Adjustment Program 1935-1938, Inclusive.

0-3-0

Elective for juniors and seniors in Agriculture.

A comprehensive study of the economics of the Agricultural Adjustment Acts of 1933-1935 and 1938, and of the Agricultural Conservation Program in 1936, 1937, and 1938. Time will be devoted to a study of the effect of the program on production and prices of cotton, tobacco, wheat, corn, and hogs according to their relative importance in North Carolina. Mr.

# Agr. Econ. 333. The Agricultural Adjustment Program for 1939. 0-0-3

Prerequisite: Agr. Econ. 332. Elective for juniors and seniors in Agriculture.

# Courses for Graduates and Advanced Undergraduates

# Agr. Econ. 402, 403. Farm Cost Accounting.

0 - 3 - 3

Required of seniors in Agricultural Economics. Prerequisite: Econ. 205 or 201-202-203, and 301-302-303.

The principles of accounting applied to farm transactions, the preparation of financial statements, the methods of keeping farm records, analysis of an individual farm record, and the interpretation of cost accounting results.

Mr. Greene.

#### Agr. Econ. 411. Agricultural Marketing.

3-0-0

Required of seniors in Agricultural Economics, Agriculture, and Vocational Education. Prerequisite: Econ. 205 or 201-202-203.

The economic principles underlying successful marketing of farm products, market organization and control, price-making forces; critical examination of the present system of marketing farm products.

Mr. Leager.

## Agr. Econ. 421. Marketing Methods and Problems.

3-0-0

Required of seniors in Agricultural Economics.

Prerequisite: Econ. 201-202-203, Agr. Econ. 202, and 6 additional term credits in Economics.

A careful study of the problems and methods involved in the marketing of farm products. Suggestions for improvement stressed.

Mr. Clement.

# Agr. Econ. 422. Agricultural Coöperation.

0-3-0

Required of seniors in Agricultural Economics. Prerequisite: Econ. 205 or 201-202-203.

Specific consideration of local community coöperation, both economic and social; farmers' buying, selling, and service organizations. Mr. Clement.

# Agr. Econ. 423. Farm Management II.

0 - 0 - 3

Required of seniors in Agricultural Economics. Prerequisite: Agr. Econ. 303.

Application of farm management principles to the management and organization of farms in typical regions of the State. Mr. Green, Mr. Forster.

# Agr. Econ. 432. Agricultural Finance.

0-3-0

Elective. Prerequisite: Econ. 205, Agr. Econ. 202, and 6 additional term credits in Economics.

Principles involved in financing the production and marketing of agricultural products. Consideration of farm mortgage credit, personal and intermediate credit, and agricultural taxation.

Mr. Leager.

# Agr. Econ. 433. Land Economics.

0-0-3

Elective. Prerequisite: Econ. 201-202-203, Agr. Econ. 202, and 6 additional term credits in Economics.

The economic problems of land classification, ownership and acquisition of land, tenancy and land ownership, the functions of the landlord and the tenant, land valuation and land speculation.

Mr. Forster.

# Agr. Econ. 442. Cotton and Tobacco Marketing.

0 - 3 - 0

Required of seniors in Agricultural Economics. Prerequisite: Econ. 205, Agr. Econ. 202, Agr. Econ. 411, and 3 additional credits in Economics.

Particular attention is given to the problems, methods, and practices used in the marketing of tobacco and cotton. Mr. Forster, Mr. Clement.

# Agr. Econ. 450. Agricultural Extension Methods.

3 credits

A study of office record systems, office management, program determination, program development, reports and their use; and the obtaining, preparation, and use of material in Extension teaching.

Dean of the School of Agriculture and his staff.

# Agr. Econ. 461, 462, 463. The Statistical Analysis of Agricultural Economic Data.

2-2-2

Required of seniors in Agricultural Economics. Prerequisite: Econ. 408-409.

This course is designed to give the student a working knowledge of the statistical methods and techniques which are used in the analysis of agricultural data, more particularly relationships which exist between acreage, production data, and farm prices.

Messrs. Greene, Smith, Forster.

## Courses for Graduates Only

# Agr. Econ. 501. Economics of Agricultural Production.

3-0-0

Prerequisite: Econ. 201-202-203, Agr. Econ. 202, and 6 additional term credits in Economics.

Economic theories applicable to agricultural production. The nature and characteristics of the factors of production, the law of variable proportion, the law of diminishing return, and the theory of least cost.

Mr. Forster.

## Agr. Econ. 502. Farm Organization and Management.

0-3-0

Prerequisite: Econ. 205, Agr. Econ. 303, 423, 501, and 6 additional term credits in Economics.

The extension of the economic principles discussed in Agr. Econ. 501 and the application of these principles to the problems of farm organization and management.

Mr. Forster.

#### Agr. Econ. 503. Agricultural Finance.

0-0-3

Prerequisite: Econ. 201-202-203, Agr. Econ. 432, and 6 additional term credits in Economics.

Problems in financing agricultural production and marketing. A history of the development of financial institutions designed to serve agriculture.

Mr. Leager.

# Agr. Econ. 513. Cooperative Marketing Methods and Practices. 0-0-3

Prerequisite: Econ. 201-202-203, Agr. Econ. 411, and 6 additional term credits in Economics.

A critical study of the methods and practices used by large agricultural coöperatives.

Mr. Clement.

# Agr. Econ. 521, 522, 523. Research Method and Procedure in Agricultural Economics and Rural Sociology.

2 - 2 - 2

Prerequisite: Economics 201-202-203; 408-409, and 6 additional term credits in Economics.

A consideration of the research method and procedure now being employed by research workers in the field of Agricultural Economics, including qualitative, quantitative, inductive, and deductive methods of research procedure. choice of projects, planning, and execution of the research project.

Mr. Forster and Mr. Smith.

#### Agr. Econ. 532. National Economic Policies Affecting Agriculture. 0 - 3 - 0

Prerequisite: Econ. 201-202-203, Agr. Econ. 202, Agr. Econ. 411.

A critical analysis of the various farm relief proposals with special reference to those made to control production, assist in the marketing of farm produts and to supply farmers with various kinds of credit. Mr. Forster.

## Rural Sociology

# Courses for Graduates and Advanced Undergraduates

# Rural Soc. 302. Rural Sociology.

0-3-0 or 0-0-3

Prerequisites: Soc. 202, 203 or Econ. 201-202-203. Required of juniors in Rural Sociology, seniors in Agricultural Economics, and juniors in certain Education curricula.

The culture, social organization, and social problems of rural people with special reference to Southern rural life and proposed programs of development. Mr. ....

## Rural Soc. 403. Farmers' Movements.

0 - 0 - 3

Prerequisite: Rural Soc. 302. Required of seniors in Agricultural Economics and Rural Sociology.

The origin, growth, and the present status of such national farmers' organizations and movements as: the Grange, the Farmers' Alliance, the Populist Revolt, the Agricultural Wheel, the Farmers' Union, the Society of the Equity, the Non-Partisan League, the Farm Bureau, the Farm-Labor Union, the Coöperative Marketing Movement. Mr. .....

# Rural Soc. 412. Rural Social Traits and Attitudes.

0 - 3 - 0

Mr. .....

Prerequisite: Rural Soc. 302. Required of seniors in Rural Sociology. The characteristic social trends and attitudes of rural people in relation to rural social organizations and rural institutions.

# Rural Soc. 413. Community Organizations.

0 - 0 - 3

Prerequisite: Rural Soc. 302. Required of seniors in Rural Sociology and in Agricultural Teaching.

Community organization in North Carolina and other states. Community structure and size, community institutions and service agencies, community disorganization, methods of community organization, leadership and the relation of community organizations to State and national agencies.

Mr. \_\_\_\_

## Courses for Graduates Only

# Rural Soc. 512, 513. Advanced Rural Sociology.

0-3-3

Prerequisites: Rural Sociology 302, and 6 additional term credits in either Rural Sociology or Agricultural Economics.

Historical forms of rural society; differentiation and mobility of farmer and peasant classes; bodily, vital, mental, and moral characteristics of rural as compared with urban groups; relation of farm people to other social groups; standards and planes of living; rural institutions and culture; national agrarian policy; and a critical review of current research in rural sociology.

Mr. \_\_\_\_\_\_

# Rural Soc. 521, 522, 523. Research in Agricultural Economies and Rural Sociology.

3-3-3

Research problems in agricultural production, marketing, finance, taxation, population, community organization, family life, standards of living and social attitudes.

Staff.

#### AGRICULTURAL ENGINEERING

## Courses for Undergraduates

# Agr. Eng. 202. Farm Equipment.

0-3-0

Prerequisites: Math. 100 or Physics 115 or 201. Required of sophomores in Agriculture.

A study of modern equipment and buildings for the farm.

Mr. Weaver, Mr. Giles.

# Agr. Eng. 212. Farm Engines.

0-3-0

Prerequisite: Physics 115 or 201. Required of sophomores in Agr. Eng. and juniors in Animal Production and in Dairy Manufacturing.

A study of the principles of gas engine operation and their application to farm uses. Selection, operation, and repair of engines is stressed. Mr. Giles.

# Agr. Eng. 222. Agricultural Drawing.

Elective for juniors and seniors.

Drawing-board work covering both freehand sketching and elementary mechanical drawing. Working and pictorial drawing, lettering, maps, graphs, tracing, and blueprinting.

Mr. Weaver.

# Agr. Eng. 233. Farm Conveniences.

0-0-3

Prerequisites: Agr. Eng. 202. Required of juniors in Agr. Eng.

A study of farm water supply systems, electric lighting plants, heating and sewage disposal systems as regards installation, adjustment, and repair.

Mr. Giles.

## Courses for Advanced Undergraduates

# Agr. Eng. 303. Terracing and Drainage.

0-0-3

Prerequisite: Soils 201 and Agr. Eng. 202. Required of juniors in Agr. Eng., juniors in Floriculture, Pomology and Vegetable Gardening, and of seniors in Animal Production, Poultry Science, and Farm Business.

A study of the different methods of disposing of surplus water and the prevention of erosion.

Mr. Weaver, Mr. Giles.

## Agr. Eng. 313. Farm Machinery and Tractors.

0-0-3

Prerequisite: Agr. Eng. 202. Required of seniors in Agr. Eng. and in Poultry Science.

A study of the design, construction and operation of modern labor-saving machinery for the farm.

Mr. Giles.

# Agr. Eng. 322. Farm Buildings.

0 - 3 - 0

Prerequisites: Agr. Eng. 202. Required of juniors in Agr. Eng. and seniors in Agr. Economics.

A study of the design, construction, and materials used in modern farm buildings.

Mr. Weaver.

# Agr. Eng. 331, 332. Teaching of Farm Shop Work.

3-3-0

Prerequisite: Agr. Eng. 202. Required of juniors in Agr. Eng. and in Vocational Agriculture.

This course is designed for men intending to teach Vocational Agriculture in the high schools of this State. Methods of presenting the subject matter to students as well as the manipulation of woodworking, forging, soldering, and pipe fitting tools.

Mr. Giles.

0-3-0

# Courses for Graduates and Advanced Undergraduates

# Agr. Eng. 403. Erosion Prevention.

0 - 0 - 3

Prerequisite: Agr. Eng. 303. Required of seniors in Agr. Eng.

The purpose of this course is to go into the causes and effects of erosion and the methods of conserving our greatest national resource—our fertile soil.

Mr. Weaver.

# Agr. Eng. 423. Farm Structures.

0-3-0 or 0-0-3

Prerequisite: Agr. Eng. 322. Required of seniors in Agr. Eng.

An advanced study of modern building methods as applied to farm structures. The use of labor-saving barn equipment and methods of reducing labor to minimum is stressed. The placing of the farm group in relation to topography and farm activities, from the standpoint of economy, appearance, and utility, is an important phase of the course.

Mr. Weaver.

# Agr. Eng. 432. Rural Electrification.

0 - 3 - 0

Prerequisite: Agr. Eng. 322. Required of seniors in Agr. Eng.

A study of problems involved in the distribution, uses and costs of electricity on the farm.

Mr.Weaver.

# Agr. Eng. 481, 482, 483. Special Problems in Agricultural Engineering.

3-3-3

Prerequisites: Agr. Eng. 303 or 313 or 332 or 331-332. Only one term required of seniors in Agr. Eng., other two elective.

This course is designed to meet the needs of students who desire advanced work in one of the following branches of Agr. Eng.: Farm Engines, Tractors, Farm Mach., Buildings, Conveniences, Rural Electrification, Erosion Control and Drainage.

Mr. Weaver. Mr. Giles.

# Agr. Eng. 491, 492, 493. Senior Seminar.

1-1-1

Prerequisite: Senior standing in Agr. Eng. Required of seniors in Agr. Eng. Students will be assigned special problems the results of which are to be presented to the class.

Mr. Weaver, Mr. Giles.

# ANIMAL HUSBANDRY AND DAIRYING

## Courses for Undergraduates

#### A. H. 202. Animal Nutrition I.

0-3-0 or 0-0-3

Required of sophomores in Agriculture. Prerequisite: Chem. 101-102-103. A study of animal nutrition; composition of animal body; digestion; nutrients; feeding standards; calculating rations. Mr. Ruffner, Mr. Haig.

#### Courses for Advanced Undergraduates

# A. H. 301. Farm Meats I.

3-0-0 or 0-3-0 or 0-0-3

Elective for juniors and seniors in Agriculture. Req.: juniors A. H. and seniors in Pomology and Poultry Science.

A study of the composition and value of meat, with practice work in slaughtering and cutting.

Mr. Swaffar.

## A. H. 302. Farm Meats II.

0 - 3 - 0

Elective for juniors and seniors in Agriculture. Prerequisite: A. H. 301.

Special study and practice in making retail cuts and in curing pork, beef, and lamb.

Mr. Swaffar.

# A. H. 303. Advanced Stock Judging.

0-0-3

Elective for juniors and seniors in Agriculture.

A study of market and show-ring requirements in the selection of horses and mules, beef cattle, dairy cattle, sheep, and swine. Breed characteristics of these animals are studied in detail, and practice judging brings out the relationship of form to function in livestock production. Mr. Haig, Mr. Swaffar.

# A. H. 311. Comparative Anatomy and Physiology of Domestic Animals.

3-0-0

Prerequisite: Zool. 102. Elective for juniors and seniors in Agriculture.

A course dealing with the structure and functions of the animal body. Laboratory, lectures, and recitations.

Mr. Grinnells.

# A. H. 313. Sheep Production.

0 - 0 - 3

Elective for juniors and seniors in Agriculture. Required of seniors in Animal Husbandry.

A study of the establishment, care, and management of the farm flock.

Mr. Swaffar.

## A. H. 321. Dairy Cattle and Milk Production.

3-0-0

Elective for juniors and seniors in Agriculture. Required of seniors in Poultry Science and Agricultural Engineering.

A study of management of dairy cattle for economical milk production, including dairy breed characteristics, adaptation, selection, management, feeding, calf raising and dairy barn equipment.

Mr. Haig.

# A. H. 322-323. History of Breeds.

0 - 3 - 3

Required of juniors in Animal Prod. Elective for juniors and seniors in Agriculture.

A study of types, characteristics, and history of the leading strains and families of the different breeds of animals. Mr. Ruffner, Mr. Haig, Mr. Swaffar.

#### A. H. 331. Swine Production.

3-0-0

Required of juniors in Animal Production and seniors in Poultry Science. Elective for juniors and seniors in Agriculture.

A study of adaptability of swine, with emphasis on feeding, judging, and Mr. Hostetler. management.

# A. H. 332. Testing of Milk Products.

0 - 4 - 0

Elective for juniors and seniors in Agriculture. Required of seniors in Animal Husbandry and juniors in Dairy Manufacturing.

Lectures and laboratory practice on the testing of milk and milk products for butterfat, acidity, adulteration, preservatives, sediment, etc., that are ordinarily used by dairy manufacturing plants or in milk inspection work. Mr. Clevenger.

# A. H. 333. Cheesemaking.

0 - 0 - 3

Elective for juniors and seniors in Agriculture. Required of juniors in Dairy Manufacturing.

Lectures and laboratory practice in making various soft and hard cheeses usually made on a farm or in a cheese factory. Mr. Clevenger.

# A. H. 341. Dairying.

3-0-0 or 0-3-0

Required of juniors in Animal Prod. and seniors in Vegetable Gardening. Elective for students in Agriculture.

Fundamentals of dairy herd management in the production of milk and cream on the farm. The use of the Babcock Tests, buttermaking on the farm, operation of cream separators, constitute the laboratory work. Mr. Haig.

# A. H. 342. Dairy Manufacture Practice.

0 - 3 - 0

Elective for juniors and seniors in Agriculture. Required of juniors in Dairy Manufacturing.

Lectures and laboratory practice on the business and factory management methods used in dairy plants. Mr. Clevenger.

# A. H. 343. City Milk Supply.

0-0-4

Elective for juniors and seniors in Agriculture. Required of juniors in Dairy Manufacturing.

Lectures and laboratory practice; the phases of the city milk supply from the standpoint of the Milk Inspector and Board of Health; the methods and processes used in a central pasteurizing milk distribution plant and the dairymen supplying milk to same; the raw retail milk distributor and his problems.

Mr. Clevenger.

# A. H. 351. Horse and Mule Production.

3-0-0

Elective for juniors and seniors in Agriculture.

A study of practical methods in production and management of horses and mules for work on farms under Southern conditions. Special study of homegrown feeds for horses and mules at work or idle.

Mr. Haig.

#### A. H. 352. Common Diseases.

0-3-0

Elective for juniors and seniors in Agriculture.

A study of contagious, non-contagious, and parasitic diseases of farm animals. Laboratory, lectures, recitations.

Mr. Grinnells.

# A. H. 353. Animal Hygiene and Sanitation.

0 - 0 - 3

Prerequisite: Bot. 402. Elective for juniors and seniors in Agriculture. Required of juniors in A. H. and of senior Teachers of Agriculture.

Animal health and prevention of disease as affected by environment. Lectures, reference reading, recitations.

Mr. Grinnells.

## A. H. 361. Animal Nutrition II.

3-0-0 or 0-0-3

Required of juniors in Animal Prod. Elective for juniors and seniors in Agriculture. Prerequisite: A. H. 202.

A study of all feeding stuffs used in America; laws controlling feeding stuffs; preparation of feeds; home mixed and commercial feeds.

Mr. Ruffner, Mr. Haig.

# A. H. 362. Dairy Machinery.

0-1-0

Elective for juniors and seniors in Agriculture. Required of seniors in Dairy Manufacturing and Agr. Engineering.

Lecture and demonstration on the installation, kind, care, and handling of dairy plant equipment, including the refrigerating unit, pipe fitting, soldering, etc.

Mr. Clevenger.

# A. H. 371. Creamery Buttermaking.

4-0-0

Elective for juniors and seniors in Agriculture. Required of juniors in Dairy Manufacturing.

This course deals with the principles and practices of factory buttermaking, from the care of the cream on the farm through the different processes until ready for marketing. Mr. Clevenger.

#### A. H. 372. Beef Cattle Production.

0 - 3 - 0

Elective for juniors and seniors in Agriculture. Required of seniors in Animal Husbandry.

A study of the feeding, care, and adaptation of beef cattle to North Carolina conditions. Mr. Swaffar.

## A. H. 381. Ice Cream Making.

4-0-0

Elective for juniors and seniors in Agriculture. Required of juniors in Dairy Manufacturing.

Standardizing of mixing and freezing ice cream, sherbets, and other frozen products, and the physical principles involved; types of freezers, flavoring materials, fillers and binders; ice cream standards. Theory and practice of refrigeration; its use in the ice-cream plant. Mr. Clevenger.

# A. H. 391, 392, 393. Senior Seminar.

1-1-1

Required of seniors in A. H. Prerequisite: A. H. 202.

A discussion of livestock problems by extension and research workers, together with special assignments to students with regard to various phases of the industry. Animal Husbandry Staff.

## A. H. 394. Dairy Products Judging.

0 - 0 - 1

Elective for juniors and seniors in Agriculture. Required of seniors in Dairy Manufacturing.

A course of training for students in judging all dairy products according to official standards and commercial grades. Mr. Clevenger.

#### A. H. 395. Summer Practicum.

3 credits

Required of all students in Animal Production and Dairy Manufacturing. Prerequisites: 18 credits in Animal Husbandry.

This course requires a minimum of six weeks practical work on an approved livestock farm or in a creamery, for which remuneration may be obtained. If the work is done at the College farms or College Creamery, no remuneration other than specified credit will be allowed. Each student will be required to submit an outline of his proposed work during the spring term and a final report of the work done during the fall term. Staff.

# Courses for Graduates and Advanced Undergraduates

## A. H. 401, 402, 403. Dairy Manufactures.

3-3-3

Required of seniors in Dairy Manufacturing. Prerequisite: A. H. 202 and 12 hours of the dairy manufacturing courses.

Special problems dealing with the manufacture and marketing of dairy products.

Mr. Clevenger.

#### A. H. 412. Animal Nutrition III.

0 - 3 - 0

Elective for seniors in Agriculture. Prerequisite: A. H. 202, A. H. 361.

A study of the chemistry and physiology of nutrition and the processes of animal life; recent scientific publications are studied.

Mr. Ruffner.

# A. H. 413. Herd Improvement.

0 - 0 - 3

Prerequisite: A. H. 202, 341, 361. Elective for juniors and seniors in Agriculture. Required of juniors in A. H.

This course is designed for training students as supervisors of Herd Improvement Associations in North Carolina. Rules for Advanced Registry are studied, and practical work in keeping feed costs, the Babcock Test, and bookkeeping necessary for dairy associations.

Mr. Haig.

# A. H. 421. Animal Breeding.

4-0-0

Elective for juniors and seniors in Agriculture. Required of seniors in Animal Husbandry.

A study of breeding and improvement of our domestic animals; a first-hand study of successful breeding establishments and their problems. Mr. Ruffner.

# A. H. 432. Pure-bred Livestock Production.

0 - 3 - 0

Elective for seniors in Agriculture. Required of seniors in Animal Husbandry. Prerequisite: A. H. 202, 331.

A study of the pure-bred livestock industry. Lectures and discussion supplemented by assignments from current periodicals and breed papers. Special study of the selection of livestock best suited to different localities.

Mr. Ruffner.

# A. H. 433. Stock Farm Management.

0 - 0 - 3

Prerequisite: A. H. 202. Elective for juniors and seniors in Agriculture. Required of seniors in Animal Husbandry.

A study of successful methods of operating farms devoted chiefly to livestock production; special reference is made to best systems applied to North Carolina conditions.

Mr. Ruffner.

# A. H. 441, 442, 443. Problems in Advanced Animal Breeding.

3-0-0, 0-3-0, 0-0-3

Prerequisite: A. H. 421. Elective for seniors in Agriculture.

A study of the physiology of reproduction. Methods and problems of breeders; influence of pedigree, herd books, and Mendelism in animal breeding.

Mr. Ruffner.

# Courses for Graduates Only

# A. H. 501, 502, 503. Research Studies in Animal Husbandry.

3-0-0 or 0-3-0 or 0-0-3

Prerequisite: Eighteen credits in Animal Husbandry.

An intensive study of experimental data.

Staff.

## A. H. 511, 512, 513. Advanced Nutrition.

3-0-0, 0-3-0, 0-0-3

Prerequisite: A. H. 202, 361.

A survey of experimental feeding, together with a study of the fundamental and practical feeding problems of the various sections of the country. A study is made of the effects of various feeds on growth and development. Animals are used in demonstrating the effects of these various nutrients and rations.

Mr. Ruffner.

# A. H. 521, 522, 523. Special Problems in Dairy Manufacturing Practice.

3-3-3

Prerequisite: Eighteen term credits in Dairy Manufacturing.

Available for graduate students interested in special dairy manufacturing problems under definite supervision and approval.

Mr. Clevenger.

# A. H. 531, 532, 533. Seminar.

1-1-1

Members of the seminar will be assigned subjects which will be reviewed and discussed. Review of literature, scientific reports and Experiment Station bulletins. Oral and written reports.

Staff.

#### ARCHITECTURE AND ARCHITECTURAL ENGINEERING

#### Courses for Undergraduates

Arch. 100. Pencil Sketching.

3-0-0, 0-3-0, 0-0-3

or 1-1-1

Required of seniors in L. A.; elective for Engineering and Textile students.

Quick sketching of objects as seen and imagined in perspective. Elementary principle of perspective, especially as applied to the visualization of imagined objects. Mimeographed Notes and Problem Sheets.

Mr. Paulson.

# Arch. 101, 102, 103. Freehand Drawing 1, 2, and 3.

2-2-2

## 1. Required of juniors in Arch., Arch. Eng., and L. A.

2-0-0

Sketching in pencil and pen and ink from models, casts and nature. Emphasis upon tonal value, pattern of darks, character and variety of line, and accenting. Lettering. Watson, *Pencil Sketching*.

# 2. Required of juniors in Arch., and Arch. Eng.

0-2-0

Water color rendering. Nature and qualities of pigments; theory of color and of tone; presentation of decorative and of pictorial subjects in monochrome and in full color. Guptill, Reference to Color.

# 3. Required of juniors in Arch., Arch. Eng., and L. A.

0-0-2

Charcoal Drawing from architectural casts and models. Emphasis upon delicacy and gradation of shade and shadow. Value sketches of composition projects.

Mr. Paulson.

## Arch. 104. Art Appreciation for Teachers.

0-0-3

Picture study of the list suggested by the State Board of Education for grade-school use, including paintings, architecture, and sculpture. Paulson, Art Appreciation for Teachers.

Mr. Paulson.

# Arch. 105. Art Principles in Industry.

3-0-0

Elective for Engineering and Textile students.

Line, form, color and aesthetic principles of practical art applicable to the design of articles for manufacture. *Mimeographed Notes*. Mr. Paulsor

#### Arch. 106. Decorative Drawing

3-0-0, 0-3-0, 0-0-3

Required of juniors in the Textile School.

Freehand drawing and creative designing of decorative motives adaptable to weaving and cloth printing. Mimeographed Problem Sheets. Mr. Paulson.

# Arch. 107. Architectural Drawing.

3-3-0

Required of freshmen in Architecture. (M. E. 105 and 106 may be substituted for Arch. 107)

Drafting Practice. Use of instruments in drawing plans, elevations, sections; projections; architectural lettering and conventions; tracing and blue-printing; elements of architecture and introduction to design. Pickering, Architectural Design.

Mr. Williams.

# Arch. 111, 112, 113. Appreciation of Fine Arts, Architecture, Painting, Sculpture

3-3-3

Elective for students of junior standing.

Principles of art. Study of those qualities which constitute great art. First term, architecture; second term, painting; third term, sculpture and the minor arts. Reinach, Apollo; University Prints; Mimeographed Notes. Robb and Garrison, Art in the Western World.

Mr. Paulson.

# Arch. 114. Clay Modeling.

1-1-1

Required of seniors in Arch. Prerequisite: Arch. 100.

Modeling of ornament, reliefs, and full round projects in clay or wax. Moulds and plaster casting. Small scale building detail models. Lectures, laboratory, and critiques.

Mr. Paulson.

## Courses for Advanced Undergraduates

Arch. 201, 202, 203. Elements of Architecture I, II, and III.

3-3-3

Required of sophomores in Arch., Arch. Eng., and L. A. Prerequisite: M. E. 105, 106, or Arch. 107.

Exercises and studies of architectural elements and details, walls, openings, etc. A study of the orders of Architecture and their application to simple problems in composition and design. Turner, Fundamentals of Architectural Design; Ramsey and Sleeper, Graphic Standards.

Mr. Edwards, Mr. Williams, Mr. McLawhorn.

#### Arch. 205. Shades and Shadows.

2-0-0

Required of sophomores in Arch. and juniors in L. A. Prerequisite: M. E. 107.

The determination of conventional shades and shadows as they occur on rendered drawings. Buck, Ronan and Oman, Shades and Shadows.

Mr. Williams, Mr. McLawhorn.

#### Arch. 206. Perspective Drawing.

1-0-0

Required of sophomores in Arch., Arch. Eng., and of juniors in L. A. Prerequisite: M. E. 107.

Study of the theory of perspective with special applications to illustration and design. Lectures and drawing. Turner, Fundamentals of Architectural Design.

Mr. Williams, Mr. McLawhorn.

#### Arch. 207. Historic Motives in Textiles.

3-0-0

Elective for students of junior standing.

Chronologic development of ornament motives, and the adaptation of historic motives to modern textile design. Hamlin, *History of Ornament*.

Mr. Paulson.

## Arch. 211, 212, 213. Freehand Drawing 4, 5, and 6.

3-3-3

Required of fifth year Arch., elective for others. Prerequisite: Arch. 103.

The purpose of this course is to give the student a mastery of presentation in his own chosen medium. The first term (Arch. 211) will be devoted principally to still life; the second (Arch. 212) to landscape; and the third (Arch. 213) to figure drawing. Personal technique will be encouraged while sound principles of drawing will be insisted upon.

Mr. Paulson.

# Arch. 301, 302, 303. Intermediate Design, B-1, B-2, B-3.

3-3-3

Required of juniors in Arch., and Arch. Eng. Prerequisite: Arch. 201, 202, 203.

Problems in elementary composition, design, planning and rendering. Library research. Registration with the Beaux-Arts Institute of Design may be required. Beaux-Arts Institute Problems.

Mr. Edwards, Mr. Williams, Mr. McLawhorn.

#### Arch. 304. Photographic Practice

0-0-1

Required of juniors in Arch., and Arch. Eng.

The practical use of photography as an aid in architectural rendition.

Lectures, Notes, and Assignments.

Mr. Paulson.

#### Arch. 305. Working Drawings.

0-0-2

Required of juniors in Arch. Prerequisite: Arch. 201, 202, 203.

The preparation of working drawings of sections and details of construction.

Ramsey and Sleeper, *Graphic Standards*; Knoblock, *Good Practice in Construction*.

Mr. Shumaker, Mr. Edwards, Mr. McLawhorn.

## Arch. 306. Architectural Drawing.

0 - 0 - 3

Required of seniors in Constr. Engr. Prerequisite: C. E. 311.

Introduction to methods generally employed in architectural offices. Lectures and drawing. Purpose: to give the student sufficient training that he may read and interpret working drawings. Ramsey and Sleeper, *Graphic Standards; N. C. State Building Code.* Mr. Edwards, Mr. McLawhorn.

Arch. 321, 322, 323. History of Architecture 1, 2, and 3.

3-3-3

Required of juniors in Arch., Arch. Eng., and L. A. Prerequisite: Arch. 203.

The origin and development of historic styles of architecture from antiquity to the nineteenth century. Illustrated lectures, library references, sketches. Fletcher, *History of Architecture*; Hamlin, *History of Architecture*.

Mr. Shumaker, Mr. Williams.

# Arch. 325. History of Sculpture and Mural Decoration.

0-0-2

Required of seniors in Arch. Eng. and of juniors in Arch. Prerequisite: Arch. 203.

The development of sculptural and mural art as adjuncts to architecture, ancient to modern. Critique of modern decoration supplementary to architecture. Mimeographed notes, library reference and illustrated lectures.

Mr. Paulson.

## Arch. 351, 352. Architectural Design E-1, E-2.

3-3-0

Required of seniors in Arch. Eng. Prerequisite: Arch. 303.

Advanced Architectural Design studied especially from the viewpoint of structure. Projects developed with wall and spanning sections. Rendered presentation of practical constructive programs.

Mr. Edwards, Mr. McLawhorn.

## Arch. 353, 354, 355. Architectural Design B-4, B-5, and B-6.

6-6-6

Required of seniors in Arch. Prerequisite: Arch. 303.

Advanced programs in architectural design. Registration with the Beaux Arts Institute of Design may be required. Complete presentation drawings of projects such as Class B—Beaux Arts Institute Problems.

Mr. Shumaker, Mr. Edwards, Mr. Williams.

## Arch. 401, 402, 403. Architectural Design A-I, A-III, A-III.

6-6-6

Required of fifth year in Arch. Prerequisite: Arch. 355.

Major problems in advanced planning and research. Registration with the Beaux-Arts Institute of Design may be required. Beaux-Arts Institute Problems.

Mr. Shumaker, Mr. Edwards, Mr.

#### Arch, 405. History of the Decorative Arts.

Furniture.

0 - 3 - 0

Mr. Shumaker.

Elective for students of junior standing. Prerequisite: Arch. 321, or 322. Lectures and library research on the history of the decorative arts, including interior architecture, furniture, stained glass, etc. McClure, E., Period

## Arch. 407. Architectural Composition.

2-0-0

Required of fifth year in Arch. Prerequisite: Arch. 323.

Principles of planning and composition as related to buildings. Architectural motives, group planning. Library research and sketches. Curtis, Architectural Composition.

Mr. Shumaker, Mr. Williams.

#### Arch. 408. Architectural Estimates.

0 - 0 - 2

Required of fifth year in Arch. Prerequisite: Arch. 305.

Lectures and problems in taking off quantities and in estimating materials and labor cost in building construction. *Mimeographed Notes*.

Mr. Shumaker, Mr. McLawhorn.

## Arch. 409. Building Materials I.

0-3-0

Required of seniors in Arch. and Arch. Eng. Prerequisite: Arch. 303.

Nature and qualities of building materials, especially fabricated materials, and their use in interior and exterior finish and in construction. Sample exhibits, lectures, and demonstrations. *Manufacturers' Data Sheets*.

Mr. Edwards.

## Arch. 411, 412, 413. Architectural Office Practice.

2-2-2 or 0-3-3

Required of juniors in Arch., seniors in Arch. Eng. Prerequisite: Arch. 305.

The preparation of working drawings from sketches, following office routine. Knoblock, Good Practice in Construction; Ramsey and Sleeper, Graphic Standards.

Mr. Shumaker, Mr. Edwards, Mr.

#### Arch. 414. Professional Practice.

0-0-1

Required of fifth year in Arch. Prerequisite: Econ. 307.

Ethics and procedure in the profession of architecture. Relation of patron and commissionee. *Mimeographed Notes*.

Mr. Shumaker.

# Arch. 415. City Planning.

0-2-0

Required in fifth year in Arch. Prerequisite: Arch. 323.

Origin and development of urban communities. Aesthetic, economic, and circulatory problems in city and town planning. Zoning and restraining legislation.

Mr. Shumaker.

#### Arch. 416. Architectural Specifications.

0 - 0 - 3

Required of seniors in Arch. and Arch. Eng. Prerequisite: Econ. 307.

Execution of specifications for architectural building contracts, identification of material, clarification of terms, and protection of patron, contractor, and architect. *Mimeographed Notes*. Mr. Shumaker, Mr. Edwards.

# Arch. 421. History of Architecture 4.

3-0-0

Required of fifth year Arch. Prerequisite: Arch. 323.

Nineteenth century and contemporary architectural styles, with special attention to trends resulting from the use of modern materials. Illustrated lectures, discussion assignments, and reports. Fletcher, *History of Architecture*.

Mr. Shumaker, Mr. Williams.

# Arch. 501, 502, 503. Graduate Design I, II, III.

4-4-4

Prerequisite: Arch. 323, 403 (or 352).

Class A.—Project. Advanced problems in design. Archaeology. Measured Drawings. Registration with the Beaux-Arts Institute of Design is required. Beaux-Arts Institute Problems. Mr. Shumaker, Mr. Edwards, Mr. Williams.

# Arch. 511, 512, 513. Historic Research I, II, III.

4-4-4

Prerequisite: Arch. 323, 403 (or 352).

Research in Architecture and Art in some important phase of its development. Library work with sketches. Library References.

Mr. Paulson, Mr. Edwards, Mr. Williams.

#### BOTANY

## Courses for Undergraduates

## Bot. 101, 102. General Botany.

4-4-0

Required of freshmen and sophomores in Agriculture.

The first term deals with the nature of the higher (crop type) plants; the second involves a survey of the major lower plant groups with the emphasis upon the economic forms (bacteria and fungi).

Mr. Wells, Mr. Shunk, Mr. Anderson, Mr. Whitford, Mr. Buell.

#### Bot. 202. Rural Sanitation.

0 - 3 - 0

A combination course on the relation of bacteria and insects to rural public health; meat and other food, and water inspection; health laws.

Mr. Shunk, Mr. Grinnells, Mr. Weaver.

# Bot. 203. Systematic Botany.

0 - 0 - 3

Elective in Agriculture and Science. Prerequisite: Bot. 101, 102.

An introduction to the local flora and the classification of the plants included therein.

Mr. Wells, Mr. Shunk, Mr. Whitford, Mr. Buell.

## Bot. 211-213. Dendrology.

Required of sophomores in Forestry. Prerequisite: Bot. 101, 102, 203.

A study of the principal trees of North America.

Mr. Buell.

# Bot. 221. Plant Physiology.

5-0-0 or 0-0-5

Required of sophomores in Forestry. Prerequisite: Bot. 101, 102.

A study of the activities of living plants with special emphasis upon the fundamental principles concerned.

Mr. Anderson.

## Courses for Advanced Undergraduates

## Bot. 301. Diseases of Field Crops.

3-0-0

Elective for juniors and seniors. Prerequisite: Bot. 101, 102, 221.

A study of the more important diseases of field crops, such as cotton, tobacco, corn, small grains, legumes, and grasses. Emphasis is placed on symptoms, cause, and control.

Mr. Lehman.

# Bot. 303. Diseases of Fruit and Vegetable Crops.

0-0-3

Elective for juniors and seniors. Prerequisite: Bot. 101, 102, 221.

Lectures and laboratory studies of importance, causes, symptoms, and control of diseases affecting these crops.

Mr. Poole.

## Bot. 311. Diseases of Forest Trees.

3-0-0

Required of seniors in Forestry. Prerequisite: Bot. 101, 102, 221.

Lectures and laboratory studies of importance, causes, symptoms, and control of diseases affecting trees and their products.

Mr. Poole.

# Bot. 401. Advanced Plant Pathology.

5 or 5 or 5

Elective. Prerequisite: Bot. 101, 102, 221, 301, 303.

A course designed to give the student training in those methods of investigation which are most useful in the study of plant pathological problems.

Mr. Lehman.

#### Bot. 402. General Bacteriology.

0-4-0

Prerequisite: Bot. 101, 102, or Zool. 101.

Required of juniors or seniors in Agriculture.

An introduction to the principles of bacteriology. Laboratory work on modern cultural methods of handling and studying bacteria. Mr. Shunk.

3-0-3

# Bot. 411-412. Plant Morphology.

3-3-0

Elective in Agriculture and Forestry. Prerequisite: Bot. 101, 102, 203.

An advanced survey of plants; the lower groups are given the first term, the higher (land plants) the second.

Mr. Wells, Mr. Shunk.

## Bot. 432. Advanced Plant Physiology.

0-3-0 or 0-5-0

Prerequisite: Bot. 101, 102, 221.

A critical and comprehensive treatment of the various aspects of plant physiology. Particular attention is given to basic principles and to recent developments.

Mr. Anderson.

## Bot. 441. Plant Ecology.

3-0-0

Required of juniors in Forestry. Prerequisite: Bot. 101, 102, 221.

Environmental control of plant distribution with emphasis upon the habitats and vegetation of North Carolina.

Mr. Wells, Mr. Shunk.

# Bot. 442. Microanalysis of Plant Tissue.

0-3-0

Prerequisite: Bot. 101, 102, 221.

The identification in plant tissues of mineral elements and organic compounds, the physiological significance of these materials. Mr. Anderson.

# Bot. 443. Soil Microbiology.

0 - 0 - 3

Elective Agriculture and Forestry. Prerequisite: Bot. 101, 102, 221, 402.

A study of the more important microbiological processes that occur in soils: decomposition of organic materials, ammonification, nitrification, and nitrogen fixation.

Mr. Shunk.

# Bot. 451. Plant Microtechnique.

3-0-0

Elective in Agriculture and Forestry. Prerequisite: Bot. 101, 102.

Materials and processes involved in the preparation of plant structures for microscopic examination.

Mr. Anderson.

# Bot. 452. Advanced Bacteriology.

0 - 3 - 0

Prerequisite: Bot. 101, 102, 221, 402.

A study of the methods used in the bacteriological analysis of water and milk.

Mr. Shunk.

# Bot. 453. Advanced Plant Ecology.

0-0-3

Elective in Agriculture and Forestry. Prerequisite: Bot. 221, 441.

Practice in the use of the instruments necessary in the study of environmental factors. Advanced readings and conferences on plant distribution in relation to these factors.

Mr. Wells.

# Bot. 463. Advanced Systematic Botany.

0-0-3

Prerequisite: Bot. 101, 102, 203.

A continuation of the elementary course 203 in the identification of the local flora plants together with a survey of the plant families from the modern phylogenetic point of view.

Mr. Wells, Mr. Buell.

# Bot. 473. Aquatic Biology.

0-0-2

Required of Sanitary Engineers. Prerequisite: Bot. 101, 102.

Identification and control of the aquatic algae and protozoa which give trouble in reservoirs. A survey of the higher water and marsh plants is also included.

Mr. Whitford.

## Bot. 481, 482, 483. Pathogenic Fungi

3-3-3

Prerequisite: Bot. 101, 102.

A course on the structure, identification, and classification of fungi. Special attention is given to species parasitic on crop plants.

Mr. Lehman.

## Courses for Graduates Only

# Bot. 501, 502, 503. Pathology of Special Crops.

3-3-3

Prerequisite: Bot. 301 or 401, 402.

A comprehensive study of the etiology, symptoms, and control of specific diseases.

Mr. Lehman or Mr. Poole.

## Bot. 511, 512, 513. Bacteriology: Special Studies.

3-3-3

Prerequisite: Bot. 402, 452.

Special work on restricted groups of bacteria, such as nitrogen bacteria of the soil, milk organisms, and special groups of bacteria in water.

Mr. Shunk.

# Bot. 521. Advanced Systematic Botany.

3-0-0 or 0-0-3

Prerequisite: Bot. 203, 411, 412.

An advanced survey of restricted groups of plants involving organization and distribution problems.

Mr. Wells, Mr. Buell.

# Bot. 531, 532, 533. Plant Physiology.

3-3-3

Prerequisite: Bot. 221, 432.

Critical study of some particular problem, involving original investigation together with a survey of pertinent literature. Mr. Anderson.

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Bot. 541. Plant Ecology.

3-0-0 or 0-0-3

Prerequisite: Bot. 203, 441.

Minor investigations in vegetation-habitat problems accompanied by advanced reference reading.

Mr. Wells.

Bot. 551, 552, 553. Research in Botany.

3-3-3

Prerequisite: 30 hours in 100-300 courses in Botany.

Staff.

Bot. 561, 562, 563. Seminar.

1-1-1

Attendance by the student upon the weekly seminar together with the presentation of a paper in his major field of research.

Mr. Wells.

#### CERAMIC ENGINEERING

# Courses for Undergraduates

## Cer. E. 102. Ceramic Materials.

0-3-0

Required of sophomores in Ceramic Engineering. Prerequisite: Geol. 220.

The origin and occurrence of ceramic raw materials, their chemical and physical properties and system of measuring them. Ries, Clays, Occurrence Properties and Uses.

Mr. Kriegel.

## Cer. E. 103. Ceramic and Mining Processes.

0 - 0 - 3

Required of sophomores in Cer. E. and Geol. E. Prerequisite: Geol. 220.

The winning and preparation of ceramic materials and the equipment and processes used in manufacturing ceramic products. Garve, Factory Design and Equipment.

Mr. Greaves-Walker.

## Courses for Advanced Undergraduates

# Cer. E. 201. Drying Fundamentals and Practice.

3-0-0

Required of juniors in Cer. E. Prerequisite: Cer. E. 102.

The theory and practice of drying ceramic products. Problems. Greaves-Walker, Drying Ceramic Products.

Mr. Greaves-Walker.

## Cer. E. 203. Ceramic Products.

0 - 0 - 3

Required of juniors in Cer E. Prerequisite: Cer. E. 103.

A study of the physical, chemical, and artistic requirement of ceramic products. Laboratory practice. Mr. Greaves-Walker, Mr. Kriegel.

# Cer. E. 252. Firing Fundamentals and Practice.

0-3-0

Required of juniors in Cer. E. Prerequisite: Cer. E. 102 and 201.

The theory and practice of firing ceramic products. Problems. Wilson, Ceramics, Clay Technology.

Mr. Greaves-Walker.

#### Cer. E. 253. Ceramic Calculations.

0 - 0 - 3

Required of juniors in Cer. E. Prerequisite: Chem. 212, Cer. E. 102, 201, 252. Solution of chemical and physical problems of the ceramic industries.

Andrews, Ceramic Tests and Calculations.

Mr. Kriegel.

#### Cer. E. 303. Silicates I.

3-0-0

Required of seniors in Cer. E. Prerequisites: Chem. 231, Cer. E. 253 and Geol. 338.

The fundamental principles underlying the composition and production of whitewares, glazes, glasses, terra cotta and abrasives. Hall and Insley, A Compilation of Phase Rule Diagrams.

Mr. Kriegel.

#### Cer. E. 304. Silicates II.

0-3-0

Required of seniors in Cer. E. Prerequisites: Chem. 231, Cer. E. 303 and Geol. 338.

The fundamental principles underlying the composition and production of refractories, cements, plasters and metal enamels. Hall and Insley, A Compilation of Phase Rule Diagrams; Andrews, Enamels.

Mr. Kriegel.

## Cer. E. 305. Pyrometry.

1-0-0

Required of seniors in Cer. E. Prerequisite: Cer. E. 252.

The theory and use of temperature measuring instruments in industry.

Wood and Cork, Pyrometry.

Mr. Kriegel.

# Cer. E. 311, 312, 313. Ceramic Laboratory.

3-3-3

Required of seniors in Cer. E. Prerequisite: Cer. E. 201, 203, 252, 253, 304. Advanced practice in producing and determining the chemical and physical properties of ceramic materials and products.

Mr. Greaves-Walker, Mr. Kriegel.

# Cer. E. 314, 315. Ceramic Designing.

0-4-4

Required of seniors in Cer. E. Prerequisite: M. E. 212, Cer. E. 103, 201, 252, and 253.

Designing of ceramic equipment and structures. Garve, Factory Design and Equipment.

Mr. Greaves-Walker, Mr. Kriegel.

# Courses for Graduates and Advanced Undergraduates

## Cer. E. 403. Refractories.

0 - 0 - 3

Required of seniors in Cer. E. and Geol. E. Prerequisite: Chem. 331, Geol 338, Cer. E. 102.

Refractory materials and manufacture of refractory products.

Use of refractory products in industrial furnaces. Norton, *Refractories*.

Mr. Greaves-Walker.

## Courses for Graduates Only

Cer. E. 501, 502, 503. Designing of Ceramic Equipment and Plants. 3-3-3

Prerequisite: Cer. E. 315.

Advanced study and designing of ceramic machinery, dryers, kilns, and plant structures.

Mr. Greaves-Walker.

Cer. E. 505, 506, 507. Advanced Refractories and Furnaces.

3-3-3

Prerequisite: Cer. E. 313, 403.

Advanced study of refractory materials and products and their use.

Mr. Greaves-Walker.

Cer. E. 509, 510, 511. Industrial Adaptability of Ceramic Materials. 3-3-3 Prerequisite: Cer. E. 313.

Laboratory investigations to determine the industrial uses to which various North Carolina ceramic materials can be put.

Mr. Greaves-Walker, Mr. Kriegel.

#### Cer. E. 513, 514, 515. Ceramic Research.

3-3-3

Prerequisite: Cer. E. 313.

Research problems in ceramics will be assigned to meet the desire of the student for specialization.

Mr. Greaves-Walker, Mr. Kriegel.

# Cer. E. 517, 518, 519. Glass Technology.

3-3-3

Prerequisite: Chem. 231, Geol. 338, Cer. E. 253, 303, 403.

Advanced study of the manufacture and physical properties of glass.

Mr. Greaves-Walker.

# Cer. E. 521, 522, 523. Advanced Silicate Technology.

3-3-3

Prerequisite: Cer. E. 303.

Advanced laboratory practice in bodies, glazes, glasses, and colors.

Mr. Kriegel.

### CHEMICAL ENGINEERING

### Courses for Undergraduates

### Chem. E. 201, 202, 203. Introduction to Chemical Engineering.

1-1-2

Required of sophomores in Chem. E. Prerequisites: Chem. 103; Math. 102. Reactions in chemical processes, illustrative problems, and control methods; elements of unit processes and unit operation; plant visits, elementary chemical engineering calculations. Randolph, Introduction to Chemical Engineering. Mr. Randolph, Mr. Johnson.

# Chem. E. 212, 213. Chemical Nature of Engineering Materials.

0 - 3 - 3

Required of Seniors in General Engineering; elective for others. Prerequisites: Chem. 103; Math. 103.

Study of the fundamental facts about the chemical nature of engineering materials as an aid in the proper choice of materials for various types of engineering purposes under working conditions. Teachers' Manual.

Mr. Randolph, Mr. Johnson.

### Courses for Advanced Undergraduates

# Chem. E. 311, 312, 313. Chemical Engineering I.

3-3-3

Required of juniors in Chem. E. and of seniors in Textile Chemistry and Dyeing. Prerequisite: Chem. 213; Chem. E. 201 or Tex. 212.

Unit processes, inorganic and organic technology; industrial chemistry; equipment, materials, methods, and processes employed in chemical manufacture; water, fuels, and power, studied on the quantitative and mathematical basis; conversion of raw materials into such necessary products as sugar, paper, gas, paint, leather, glass; by-products and waste products. Read's Industrial Chemistry; Scroggins, Organic Unit Processes; Teachers' Manual; Badger and McCabe, Elements of Chemical Engineering; and Library References. Mr. Lauer, Mr. Doody.

# Chem. E. 321, 322, 323. Chemical Engineering Laboratory I.

1-1-1

Required of juniors in Chem. E. Prerequisite or concurrent: Chem. E. 311. A laboratory study of industrial control methods; industrial plant visits; problems and processes solved and presented in technical reports; preparation of products on pilot plant scale; costs studies. Notes.

Mr. Lauer, Mr. Doody, Mr. Drum.

Chem. E. 330. Treatment of Water and Sewage.

3-0-0 or 0-0-3

Required of juniors in San. E. Prerequisite: Ch. E. 311 or C. E. 215.

Principles involved in the control of municipal water supplies and in sewage treatment; reactions involved; chemical nature of water and sewage treatment; methods for removal of the more objectionable materials in industrial waters. *Notes*.

Mr. Randolph, Mr. Doody.

Chem. E. 331. Industrial Stoichiometry.

3-0-0 or 0-3-0 or 0-0-3

Required of juniors in Chemical Engineering. Prerequisite or concurrent: Chem. E. 311.

Industrial calculations and measurements; heat balances; material balances; fuels and combustion processes; principles of chemical engineering calculations. Haugen and Watson, *Industrial Chemical Calculations*.

Mr. Lauer.

# Courses for Graduates and Advanced Undergraduates

Chem. E. 411, 412, 413. Principles of Chemical Engineering.

3-3-3

Required of seniors in Chem. E. Prerequisite: Chem. E. 311; concurrent with Chem. 431.

Survey of field of Chemical Engineering; control in industrial manufacture; unit operations; flow of fluids and of heat; equipment for and principles involved in such operations as crushing and grinding, separation, evaporation, distillation, filtration; humidification; drying, absorption, and extraction; chemical engineering calculations; design and efficiency of chemical machinery. Walker, Lewis, McAdams and Gilliland, Principles of Chemical Engineering; Badger and McCabe, Elements of Chemical Engineering.

Mr. Bain, Mr. Johnson, Mr. Lauer.

Chem. E. 421. Water Treatment.

3-0-0 or 0-3-0 or 0-0-3

Required of seniors in Chem. E. Prerequisite: Chem. E. 311.

Supplies of water; filter plant machinery, equipment and practice; water purification and softening; types of filters; requirements of waters for municipal and manufacturing purposes; water analysis; research on water purification and industrial waste treatment. *Notes.* Mr. Randolph, Mr. Doody.

Chem. E. 422. Chemistry of Engineering Materials.

3 or 3 or 3

Required of seniors in Chem. E. Prerequisite: Chem. E. 311.

Technical study of engineering materials, suitable materials for manufacturing plants, machines, and special uses; corrosion and chemical action; paints and protective coatings; metallurgy; strength, toughness, and elasticity of metals; chemical, metallographic, and microphotographic examinations of metals and alloys, and other materials; fire assaying. Leighou, Chemistry of Engineering Materials; White, Engineering Materials.

Mr. Randolph, Mr. Van Note, Mr. Bain.

# Chem. E. 423. Electrochemical Engineering.

3-3-3 or 0-0-3

Required of seniors in Chem. E. Prerequisite: Chem. E. 311.

Theory and practice of electrochemical industries; principles of electrolysis and other electrochemical processes; electric furnace; electro-thermal operations, electrometallurgy. Mantell, *Industrial Electrochemistry*.

Mr. Randolph, Mr. Doody, Mr. Lauer.

### Chem. E. 425. Gas Engineering.

3 or 3 or 3

Elective for seniors or graduates in Chem. E. Prerequisite: Chem. E. 311.

A gas engineering course; manufacture of industrial fuel gases and their distribution; advances made in the industry; apparatus and equipment; plant design; general practice in gas plants; application and use of gas and the by-products of its manufacture; pipe lines, service connections, gas meters.

Mr. Randolph.

#### Chem. E. 426. Sanitation Processes.

0-0-3

Prerequisite: Chem. E. 311.

Technical study of the methods of sanitation in industrial plants; equipment and practice in the disposal and treatment of waste materials and sewage; measures necessary in eliminating occupational disease hazards.

Notes.

Mr. Randolph, Mr. Lauer.

# Chem. E. 427. Industrial Application of Physical Chemistry. 3 or 3 or 3

Prerequisite: Chem. E. 311.

Special phases of physical chemistry studied technically with reference to the practical application of these principles in the chemical industries such as industrial catalysis, evaporation principles, absorption, equilibrium, applications of phase rule, physical metallurgy, colloids. *Notes*. Mr. Doody.

#### Chem. E. 428. Fuel and Combustion Engineering.

3 or 3 or 3

Prerequisite: Chem. E. 311.

Fundamental principles and mechanism of the combustion reactions; quantitative application to problems of design or use of equipment for fuel processing and utilization; and a thorough study of solid, liquid, and gaseous fuels, with complete methods of analysis. Haslam and Russell, Fuels and Their Combustion.

Mr. Lauer, Mr. Randolph.

# Chem. E. 431, 432, 433. Chemical Engineering Laboratory and Design II.

2-2-2

Required of seniors in Chem. E. Prerequisite or concurrent: Chem. E. 411.

A laboratory study of measurement of flow of fluids and heat; crushing and grinding, distillation; evaporation; drying; humidity; filtration and mechanical separation; absorption, and extraction, calculations, design and construction of equipment for these fundamental unit operations in chemical industry.

Mr. Johnson, Mr. Bain, Mr. Seely, Mr. Drum.

# Chem. E. 434. Chemical Engineering Design.

3 or 3 or 3

Prerequisite or concurrent: Chem. E. 411.

Location, layout, and complete design of the chemical plant and its process equipment. Materials of construction. Economic factors controlling the chemical industry, and optimum design from the standpoint of economic return, process development, pilot plant production studies. *Notes*.

Mr. Lauer, Mr. Johnson.

#### Chem. E. 435. Industrial Oils, Fats and Waxes.

0-0-3 or 3-0-0

Elective for juniors or seniors in Chem. E. Prerequisite: Chem. E. 311.

Commercial practice in the manufacture, refining, and conversion of animal and vegetable oils and their by-products; analyses, tests, and methods of preparation for foods and feeds; drying, semi-drying, and essential oils; industrial fats and waxes. Technical study of petroleum refining and products; lubricants.

Mr. Lauer.

# Chem. E. 436. Chemical Engineering Thermodynamics.

3 or 3 or 3

Prerequisite or concurrent: Chem. E. 411.

A study of the thermal properties of matter and energy relationships underlying chemical processes. A thorough consideration of fundamental laws of energy as applied to Chemical Engineering problems and processes in industry.

Mr. Doody, Mr. Johnson.

#### Chem. F. 437. Cellulose and Allied Industries.

3-3-0 or 3-3-3

Required of seniors in Forestry. Prerequisite or concurrent: Chem. E. 311 or Forestry 206, 207.

Cellulose and its compounds; forest raw material for chemical industries; methods and processes; control conditions; machinery; equipment; water requirements; processes for manufacture of paper; rayon; tannin; tar; pitch; turpentine; creosote; wood alcohol; acetic acid; acetone; rubber, and cellulose conversion products; distillation, and extract industries. *Notes*.

Mr. Lauer.

#### Chem. E. 438. Corrosion: Causes and Prevention.

3-3-3

Prerequisite: Chem. E. 311.

Theories of corrosion; influences of metal composition and methods of manufacture; external influences; corrosion testing; preventive measures against atmospheric, underground, underwater, closed water system, chemical corrosion. Good practices; comparison of corrosive resisting materials; suitability of materials for corrosion resistance in various chemical and industrial uses. Speller, Corrosion: Causes and Prevention. Notes. Mr. Johnson.

### Chem. E. 439. Chemical Principles.

3or 3 or 3

Prerequiste or concurrent: Chem. E. 311.

Fundamental principles in chemical manufacture and correlation of these principles in unit processes and operation. Hougen and Watson, *Industrial Chemical Calculations*. Notes.

Mr. Doody.

### Chem. E. 440. Metals and Alloys.

3 or 3 or 3

Elective for seniors. Prerequisite: Chem. E. 311 and 422 or M. E. 131.

Metals and alloys studied through chemical, thermal, and microscopic analysis; intermetallic compounds, solid solutions, eutectics; internal mechanisms and their effect in ageing, heat treating, mechanical working; modern physical metallurgical problems and practices. Doan, *Principles of Physical Metallurgy*.

Mr. Bain.

### Courses for Graduates Only

### Chem. E. 501. Chemical Technology-Advanced.

3-3-3

Prerequisite: Chem. E. 411.

An advanced course in problems, processes, and methods of chemical manufacture and production; special problems of local manufacturing plants worked out under plant conditions; optimum production conditions; special study in applied inorganic, applied organic chemistry, and research in applied chemistry.

Mr. Randolph, Mr. Lauer.

#### Chem. E. 502. Industrial Chemical Research.

3-3-3

Prerequisite: Chem. E. 411.

Chemical research on some industrial problem relating to North Carolina resources; practice in industrial plants, control analyses, estimate of losses, costs, data sheets, technical report.

Staff.

### Chem. E. 503. Chemical Engineering Research.

3-3-3

Prerequisite: Chem. E. 411.

Some plant problem studied exhaustively by making investigations at the chemical plant, and by supplementary experiments and research in the laboratory; measurements, tabulation, graphs, and calculation of some actual plant problem.

Staff.

# Chem. E. 504. Advanced Chemical Engineering.

Prerequisites: Chem. E. 411, Chem. E. 431.

Advanced study of process equipment, theory, and practice in operation and design for the unit operations, evaporation, distillation, absorption, filtration, drying, crystallization, and air conditioning; Chemical Engineering thermodynamics; coefficients of heat transfer; heat of reactions; evaporators; stills; condensers, and heat exchangers; interrelationships between heat transfer and fluid friction. McAdam, Heat Transmission and other texts.

Mr. Bain, Mr. Randolph.

#### CHEMISTRY

### Courses for Undergraduates

# Chem. 101, 102, 103. General Inorganic Chemistry.

4-4-4

Recitations and laboratory work; theories and laws, history, occurrence, preparation, properties, and uses of the more important elements and their compounds; formulae, valence, equations and calculations.

Messrs. Caveness, Reid, Jones, Jordan, Satterfield, Singer, Showalter, Sutton, Wilson, and Williams.

### Chem. 211. Qualitative Analysis.

4-0-0

Required of sophomores in Ceramic, Chemical, and Mining Engineering and those majoring in chemistry and of juniors in Textile Chemistry and Dyeing. Prerequisite: Chem. 101, 102, 103.

Chemical analysis: identification and separation of more common ions and analysis of mixture of salts of commercial products.

Messrs. Wilson, Caveness, Reid.

### Chem. 212. Quantitative Analysis.

0-4-0

Required of sophomores in Ceramic Engineering, Chemistry, Chemical Engineering, and juniors in Textile Chemistry and Dyeing. Prerequisite: Chem. 211.

### Chem. 213. Quantitative Analysis.

0-0-4

Required of sophomores in Chemical Engineering and those majoring in Chemistry. Prerequisite: Chem. 211.

A continuation of Chem. 212. Gravimetric methods. Substances of more difficult nature are analyzed, as minerals, steel, alloys, limestone, Paris green, etc. Messrs. Wilson, Caveness, Reid.

3-3-3

Chem. 221. Introduction to Organic Chemistry. 4-0-0 or 0-4-0 or 0-0-4

Required of sophomores in Agriculture. Elective for others. Prerequisite: Chem. 101, 102, 103.

Hydrocarbons, alcohols, aldehydes, ketones, acids, ethers, esters, amino acids, and bezine derivatives; carbohydrates, fats, proteins, and related compounds.

Mr. Williams.

# Chem. 223. Quantitative Analysis.

0-0-4

Required of students in Textile Chemistry and Dyeing.

A continuation of Chem. 212. Substances of more difficult nature are analyzed, as sulphites, sulphides, bleaching powder, Turkey-red oil, soaps.

Messrs. Wilson, Caveness, Reid.

# Chem. 233. Quantitative Analysis.

0-0-4

Required of Agr. Chemistry students. Prerequisites: Chem. 212.

Course allows students to choose field of analysis, such as soil analysis, fertilizers, feedstuffs, insecticides, and fungicides. Mr. Wilson.

### Chem. 242. Chemical Calculations.

0-3-0 or 0-0-3

Prerequisite: Chem. 101, 102, 103.

Chemical problems, especially in analytical work. Lectures are given in principles, theories, laws, etc., upon which the problems are based; assigned problems for discussion.

Mr. Caveness.

# Chem. 331. Physical Chemistry.

5-0-0

Required of Cer. E.; elective to others. Prerequisite: Chem. 101, 102, 103.

Fundamental chemical principles from a hysiochemical viewpoint; special attention to silicate analysis, colloids, and phase rule.

Mr. Singer.

# Courses for Graduates and Advanced Undergraduates

# Chem. 401. Historical Chemistry.

2-0-0

Prerequisite: Chem. 101, 102, 103.

Development of Chemistry and the history of men instrumental in the progress of Chemistry.

Mr. Williams.

# Chem. 402, 403. Theoretical Chemistry.

0-2-2

Prerequisite: Chem. 101, 102, 103.

Atoms and molecules, chemical reactions and conditions influencing them, electronic conception of valence, radio activity.

Mr. Jordan.

# Chem. 411. Advanced Qualitative Analysis.

4-0-0

Prerequisite: Chem. 211 or its equivalent.

Theory and reactions in analysis of more complex compounds. Mr. Wilson.

# Chem. 412. Advanced Quantitative Methods.

0-3-0 or 0-0-3

Prerequisite: Chem. 213 or its equivalent.

Methods and apparatus in advanced quantitative analysis; heat of combustion, colorimetry, hydrogen ion concentration, electric combustion of steel, etc.

Mr. Wilson.

# Chem. 421, 422, 423. Organic Chemistry.

4-4-4

Required of juniors in Chemical Engineering, Chemistry, and seniors in Textile Chemistry and Dyeing. Elective for others. Prerequisite: Chem. 101, 102, 103.

Aliphatic and aromatic compounds; practical applications; methods of preparation and purification of compounds, and their structures. Mr. Williams.

### Chem. 431, 432, 433. Physical Chemistry.

4-4-4 or 4-4-0

The first two terms only required of Chemical Engineers; elective for Agricultural Chemistry students. Prerequisite: Chem. 213.

Principles of Physical Chemistry; laws and theories, application to various branches of chemistry and to industrial processes.

Mr. Singer.

#### Chem. 441. Food Products and Adulterants.

3-0-0 or 0-3-0

Designed for students in all schools. Prerequisite: Chem. 221 or 421-22-23.

Food principles, cereals, starches, sugars, fats, milk and milk products, the packing house, food preservation, beverages, spices and condiments; food legislation, food advertising.

Mr. Satterfield.

# Chem. 442. Chemistry of Colloids.

0-3-0

Prerequisite: Chem. 221 or 421-22-23.

Colloidal behavior, osmotic pressures, dialysis, sols and gels, membranes and membrane equilibria, proteins, and Donnan equilibrium. Mr. Jones.

# Chem. 451, 452. Physiological Chemistry.

3-3-0

Prerequisite: Chem. 221 or 421-22-23.

Essential chemical facts pertaining to life processes; digestion, absorption, metabolism, secretions, and excretions; lectures, laboratory. Mr. Satterfield.

# Chem. 462. Chemistry of Vitamins.

0-3-0 or 0-0-3

Required of juniors in Animal Prod. Prerequisite: Chem. 221 or 421-22-23.

Application of vitamin hypothesis to human nutrition; history, nomenclature, properties, distribution, effects of deficiencies, vitamin values.

Mr. Satterfield.

### Chem.472. Blood Analysis.

0-3-0 or 0-0-3

Prerequisite: Chem. 212 and 421-22-23.

Hemoglobin, sugar, urea, uric acid, cholesterol, creatine, creatinine, nonprotein, nitrogen, amino acid nitrogen, calcium, etc.; Folin-Wu system is emphasized; lectures and laboratory.

Mr. Satterfield.

# Chem. 481. Agricultural Chemistry.

3-0-0

Prerequisite: Chem. 101, 102, 103, and 221 or 421-22-23.

Feeding the plant; insecticides and fungicides; transforming the plant into human food and animal food. Composition of plants; relation between composition and uses.

Mr. Satterfield.

### Chem. 482, 483. Food and Nutrition.

0 - 3 - 3

Prerequisite: Chem. 221 or 421-22-23.

Open to all students desiring a practical knowledge of the subject.

Carbohydrates, fats, proteins, amino acids, minerals, fiber, vitamins and enzymes; nutritive value of food materials; digestion, food idiosyncrasy; acidosis and alkalosis.

Mr. Satterfield.

### Chem. 491, 492, 493. Advanced Physical Chemistry.

3-3-3

Prerequisite: Chem. 431-32-33.

An advanced problem course designed for chemical engineers. Mr. Singer.

### Courses for Graduates Only

### Chem. 501, 502, 503. Organic Chemistry, Advanced.

3-3-3

Prerequisite: Chem. 421-22-23.

Principles of Organic Chemistry, current literature; laboratory work and preparation in quantity.

Mr. Williams.

#### Chem. 511. Organic Qualitative Analysis.

3-0-0

Prerequisite: Chem. 421-22-23.

Detection of elements and radicals, group characteristics. Mr. Williams.

Chem. 512. Organic Quantitative Analysis.

0 - 3 - 0

Prerequisite: Chem. 212, 421-22-23.

Analysis of organic compounds for carbon, hydrogen, nitrogen, the halogens, sulfur, etc.

Mr. Williams.

Chem. 513. Organic Micro-Analysis.

0-0-3

Prerequisite: Chem. 421-22-23.

Tests for compounds, and impurities in quantities too small to be detected by ordinary methods.

Mr. Williams.

Chem. 523. Micro-chemical Analysis.

0 - 0 - 3

Prerequisite: Chem. 213.

Inorganic micro qualitative analysis; fibres, starches, etc. Mr. Wilson.

Chem. 531, 532, 533. Chemical Research.

3-3-3

Prerequisite: 54 term credits in Chemistry. Open to all graduates.

Special problems that will furnish material for a thesis.

Mr. Jordan, Mr. Satterfield, Mr. Williams, Mr. Wilson.

Chem. 541, 542, 543. Seminar.

1-1-1

Required of graduate students specializing in Chemistry.

Preparation and presentation of abstracts of current publications in the field of Chemistry.

Chem. 552, 553. Biochemistry.

0-3-3

Prerequisite: Chem. 421-22-23, 482-83.

Special topics in Biochemistry. Advanced study in the fields of Biochemistry.

Mr. Satterfield.

### CIVIL ENGINEERING

# Courses for Undergraduates

C. E. 101, 102, 103. Drawing.

1-1-1

Required for freshmen in Forestry.

Plain lettering, common symbols, platting of areas from compass survey notes furnished, filling in contours from notes furnished, tracing, calculation of areas—by planimeter. Finished maps. Sloane and Montz, Elementary Topographic Drawing.

Mr. Fontaine.

# C. E. s200. Surveying.\*

3 credits

Prerequisite: Math. 102.

Required in the summer immediately following the freshman year in Agr. Eng., A. E., Cer. E., and E. E. and M. E. following the sophomore year.

The use, care and adjustment of surveying instruments; elementary land surveying, traverse lines, leveling, topographical surveying and stadia measurements. Tracy, *Plane Surveying*. Mr. Mann and Staff.

# C. E. 221, 222, 223. Surveying, Theoretical.

3-3-3

Prerequisite: Math. 102.

Required of sophomores in Civil, Construction, Highway and Sanitary Engineering. C. E. 221-22 required in Forestry (0-3-3), of Geol. Eng., and Landscape Architecture (3-3-0).

Use, care and adjustment of surveying instruments, Land Surveying, Topographical Surveying, Leveling and Theory of stadia measures, plane table, etc.

Third term, railroad surveys, including simple, compound, reverse, and spiral curves, turnouts, etc. Davis, Foote, Rayner, Surveying. Rubey, Route Surveys.

Staff.

# C. E. 224. Topographic Drawing.

0-0-1

Prerequisite: C. E. 101-2-3.

Required in Forestry, Landscape Architecture.

Plotting by coordinates; contours and general topography. Notes. Staff.

# C. E. 225, 227. Field Surveying.

1-0-1

To be taken concurrently with C. E. 221-3.

Required in C. E., Constr. E., San. E., H. E., and Landscape Architecture. C. E. 225 required in Geol. E. (1-0-0), and in Forestry (0-1-0).

Surveying field practice, topographical surveys, railroad and highway curves. Profiles, cross-sections.

# C. E. 226. Mapping.

0-1-0

Prerequisite: M. E. 105-6. To be taken concurrently with C. E. 222.

Required of all students in the Department of Civil Engineering, Geological Engineering, and Landscape Architecture.

Practice in conventional signs and lettering. A complete topographical map and tracing is to be made involving the use of three methods of contour location. Field notes to be furnished.

Mr. Fontaine, Mr. Lambe.

<sup>\*</sup> Note: Two sessions, (a) Full time, 3 weeks immediately following close of College third term; (b) Half time, 6 weeks concurrently with College Summer School term in order to allow students to schedule summer school work.

# C. E. 281. Mill and Mill Village Sanitation.

3-0-0

Prerequisite: Chem. 103.

Mill and mill village water supply and sewage disposal, mosquito and fly control, sanitary milk supply, industrial hygiene. This course given for textile students. Ehlers and Steele, Municipal and Rural Sanitation.

Mr. Johnson

# Courses for Advanced Undergraduates

# C. E. s300. Surveying and Mapping.

3 credits

Prerequisite: C. E. 221-2-3; C. E. 224.

Required in summer immediately following sophomore year in Forestry.

Boundary; topographical surveys, and calculations of sections of College Experimental Forestry Lands. Finished section maps. Davis, Foote, Rayner, Surveying.

Staff.

# C. E. s310. Advanced Surveying.\*

3 credits

Required in the summer immediately following the sophomore year in Civil Engineering.

Prerequisite: C. E. 221-2-3; C. E. 226.

Plane table practice, special problems in surveying practice; triangulation, railroad and highway spirals; hydrographic surveying with sextant; plane table problems; the use and rating of current meters; measurement of stream flow; drainage problems.

Laying out proposed construction work. Topograph, details, special problems. Davis, Foote, Rayner, Surveying.

Mr. Mann and Staff.

### C. E. 321. Materials of Construction.

3-0-0

Required of juniors in C. E., H. E., and Constr. E., San. E., M. E. and A. E. and of seniors in I. E.

The study of materials used in buildings and other engineering structures, with particular reference to their methods of manufacture and physical properties. Two periods lecture and recitation; one period laboratory. Tucker, Laboratory Manual in the Testing of Materials. Lectures and Notes.

Messrs. Tucker, Bramer, Fontaine.

# C. E. 361, 362, 363. Construction Engineering I.

3-3-3

Prerequisite: E. M. 311.

Required of juniors in Constr. E.

Study of working drawings, good practice in masonry and frame construction, estimating quantities. Huntington, Building Construction Notes and Trade Literature.

Mr. Geile.

<sup>\*</sup> Note: Two sessions, (a) Full time, 3 weeks immediately following close of College third term: (b) Half time, 6 weeks concurrently with College Summer School term in order to allow students to schedule summer school work.

# C. E. 365, 366. Sanitary and Mechanical Equipment of Buildings.

Prerequisite: E. M. 311-12.

First term required of juniors in Constr. E. First and second terms required of juniors in Arch. E.

### C. E. 383. Sanitary Engineering.

0 - 0 - 3

3-3-0

Required of juniors in San. E. Prerequisite: Chem. 103.

This course covers, in a general way, the field of Sanitary Engineering, including: water supply and sewage disposal; ventilation; mosquito and fly control; refuse disposal; public health laws and organization. Ehlers and Steele, Municipal and Rural Sanitation.

Mr. Johnson.

### Courses for Graduates and Advanced Undergraduates

### C. E. 421, 422. Reinforced Concrete.

3-3-0

Required of all seniors in Department of Civil Engineering and Architectural Engineering.

Prerequisite: E. M. 313, 322.

Derivation of formulas used in reinforced concrete design, use of diagrams and curves. Illustrative problems in design. Turneaure and Maurer, *Principles of Reinforced Concrete Construction*. Mr. Mann, Mr. Bramer.

#### C. E. 423, 424, 425. Graphic Statics.

1-1-1

Prerequisite: E. M. 313.

First term required of all seniors in Department of Civil Engineering. First, second, and third terms required of all seniors in Architectural Engineering.

Principles involved in the solution of problems by graphical methods. Moments, shears. Resultant pressure on retaining walls. Stress diagrams. Fairman and Cutshall, *Graphic Statics* and assigned references. Mr. Mann.

### C. E. 426, 427. Structural Design.

0-3-3

Prerequisite: E. M. 322, C. E. 431.

Required of seniors in C. E., H. E., Constr. E., San. E.

Design of beams, columns, tension members, plate girders, trusses and structures. Bishop, Structural Design.

Mr. Mann.

# C. E. 431, 432. Theory of Structures.

Prerequisite: E. M. 322.

Required of seniors in C. E., H. E., Constr. E., San. E.

# C. E. 431a, 432a. Theory of Structures (abridged).

3-3-0

Prerequisite: E. M. 322.

Required in Architectural Engineering. C. E. 431, 432, to be required if less than five students enroll for C. E. 431a, 432a.

Stress analyses and designs of wooden and steel roof trusses; wood, steel, and reinforced concrete floor systems. Theory and design of columns, footings, retaining walls. Theories for wind stress design in tall buildings.

Mr.

### C. E. 435. Soil Mechanics.

3-0-0

Prerequisite: E. M. 321-22.

Required of all seniors in Civil Engineering.

The classification of soils; their physical characteristics and tests. The suitability of certain types of soils for foundations. Methods of stabilizing soils. General principles involved in selection of soils for foundations.

Mr. Bramer.

### C. E. 438, 439. Elements of Structures.

0 - 3 - 3

Prerequisite: E. M. 322.

Required of seniors in General Engineering, elective for others.

### C. E. 442. Railroad Economics.

0 - 3 - 0

Required of seniors in Civil Engineering. Prerequisite: C. E. 223, E. M. 311.

Economics of railroad location; construction, maintenance and operation; betterment and valuation surveys. Raymond, *Elements of Railroad Engineering*.

Mr. Mann.

3-3-0

# C. E. 443. Hydraulic Structures.

Prerequisite: E. M. 330.

Required of juniors in Civil Engineering.

Application of the fundamentals of Fluid Mechanics to problems in Hydraulic Engineering; flow in pipes, in canals and natural water courses; design of locks and dams for navigation; flood control and power development; theory of design, installation and operation of pumps and hydraulic motors.

Mr. Riddick.

# C. E. 449. Hydrology.

0 - 0 - 3

Prerequisite: E. M. 330.

Elective for seniors in Engineering.

The study of the science of the occurrence, distribution and use of water upon the earth with particular reference to North Carolina, including precipitation, evaporation, transpiration, seepage, runoff and stream flow.

Meyer, Elements of Hydrology.

Mr. Van Leer.

# C. E. 453. Applied Astronomy.

0 - 0 - 4

Prerequisite: C. E. 310.

Required of seniors in C. E. and H. E.

The application of astronomy in determining latitude, azimuth, longitude and time; astronomical observations with transit and sextant; reduction of observations. One credit given for observations. Hosmer, Applied Astronomy.

Mr. Bramer.

# C. E. 461, 462, 463. Construction Engineering II.

3-3-3

Prerequisites: C. E. 361-2-3.

Required of seniors in Constr. E.

# C. E. 467. Specifications.

0-0-3

Prerequisite: C. E. 321.

Required of seniors in Constr. E. and Arch. E.

0-0-3

# C. E. 468. Construction Equipment.

Prerequisite: E. M. 322.

Required in Construction Engineering.

### C. E. 469. Accident Prevention in Construction.

0-0-3

Prerequisite: E. M. 322.

Required in Construction Engineering.

Causes and costs of accidents in construction. A study of methods used in accident prevention work. A. G. C. Accident Prevention Manual.

Mr. .....

# C. E. 481, 482. Sanitary Engineering Laboratory.

1-1-0

Concurrent with C. E. 485, 486.

Required in Civil Engineering and Sanitary Engineering.

Laboratory analysis of sewage and sludge. Inspection trips to sewage disposal plants. Laboratory analysis for determining quality and safety of water. Inspection of waterworks in various cities. Notes.

Mr. Johnson.

# C. E. 483. Financing of Sanitary Utilities.

0 - 0 - 3

Prerequisites: Math. 303, C. E. 383. Required in Sanitary Engineering.

Rates and service charges, collections, operating cost control, bond issues, and budgets. Mr. Johnson.

#### C. E. 485. Waterworks.

3-0-0

Prerequisites: E. M. 330. C. E. 443.

Required of seniors in C. E. and San. E.

Municipal waterworks; quantity; sources of supply, collection; purification, distribution. Babbitt and Doland, Water Supply Engineering.

Mr. Johnson.

### C. E. 486. Sewerage.

0-3-0

Prerequisites: E. M. 330. C. E. 443.

Required in C. E. and San. E.

Separate and combined sewer system; principles of design and construction; sewer appurtenances; disposal plants. Metcalf and Eddy, Sewerage and Sewage Disposal.

Mr. Johnson.

0 - 3 - 0

### C. E. 488. Water Purification.

Prerequisites: E. M. 330, C. E. 485.

Required of seniors in San. E.

Design and operation of water purification plants: sedimentation, coagulation, filtration, and sterilization of water. Recent treatment processes. Inspection trips to various plants. Babbitt and Doland, Water Supply Engineering.

Mr. Johnson.

### C. E. 489. Sewage Disposal.

0 - 0 - 3

Prerequisite: C. E. 486.

Required of seniors in San. E.

Design and operation of sewage disposal plants; treatment processes and devices; efficiencies and costs of plants; public health, legal and economic problems involved. Inspection trips to disposal plants. Metcalf and Eddy, Sewerage and Sewage Disposal.

Mr. Johnson.

### Courses for Graduates Only

### C. E. 525, 526, 527. Advanced Structural Design.

3-3-3

Prerequisites: C. E. 426, 427.

### C. E. 531, 532, 533. Advanced Structural Theory.

3-3-3

Prerequisites: C. E. 431-2.

### C. E. 561, 562, 563. Construction Engineering Research.

3-3-3

Prerequisites: C. E. 461-2-3.

Study of recent advancement and developments in Construction. Original research.

### C. E. 581, 582, 583. Sanitary Engineering Research.

3-3-3

Prerequisites: C. E. 383, 488, 489.

In the first term a study of recent developments and research in Sanitary Engineering is made from current literature. In the second term a research problem is selected and data on the problem is compiled from literature. In the third term individual research work is done.

Mr. Johnson.

0-3-0

C. E. 585, 586. Advanced Sewage Disposal.

3-3-0

Prerequisite: C. E. 489.

Study of sewage, sludge, and industrial wastes, efficiencies obtained by different types of disposal plants, treatment processes and their results, sludge conditioning, digestion and disposal.

Mr. Johnson.

C. E. 588, 589. Advanced Water Purification.

0 - 3 - 3

Prerequisite: C. E. 488.

Study of water purification processes, primary and secondary treatments, control of tastes and odors, and treatment of colored waters.

Mr. Johnson.

### **ECONOMICS**

#### Courses

Econ. 201-2-3. General Economics.

3-3-3

Required of sophomores in Constr. E., I. E., juniors in Agricultural Teaching, Cer. E., C. E., E. E., Geol. E., H. E., M. E. and Textile curricula, and of seniors in A. E., Chem. E. and San. E.

A study of economic institutions and general principles governing production and distribution of wealth under the existing economic organization.

Messrs. Brown, Green, Leager, Moen, Shulenberger, and Strickland.

Econ. 205. Introduction to Economics.

3-0-0 or 0-3-0 or 0-0-3

Required of students in Forestry, Land. Arch., and Ind. Arts.

It treats of the business aspects and economic organization of society; production, distribution, and value of economic goods. Mr. Green.

Econ. 212. Accounting for Engineers.

3-0-0 or 0-3-0

A survey of accounting principles; financial statements, their construction, use, and interpretation.

Mr. Shulenberger.

Econ. 301-2-3. Principles of Accounting.

3-3-3

Required of juniors in Agricultural Economics, Industrial Engineering, Textile Manufacturing, and Yarn Manufacturing.

Fundamental principles of theory and practice; interpretation of the structure, form, and use of business statements.

Mr. Shulenberger.

# Econ. 305. Business Organization.

0-3-0

Required of seniors in Highway Engineering. Prerequisite: Econ. 201-2-3 or 205.

Forms of business enterprises; single enterprises, partnerships, joint-stock companies and corporations, and principles of business management.

Mr. Green.

#### Econ. 307. Business Law.

3-0-0 or 0-3-0 or 0-0-3

Required of seniors in Engineering.

Sources of law, fields of law, contracts, agency, sales, negotiable documents, and the law as it controls business transactions.

Messrs. Green and Strickland.

### Econ. 308. Advanced Business Law.

0-0-3

Prerequisite: Econ. 307.

A continuation of Economics 307, including bailments, suretyship, real property and corporations, with some attention to recent developments in State and Federal Law.

Mr. Green.

# Econ. 311-2-3. Marketing Methods and Sales Management.

3-3-3

Prerequisite: Econ. 201-2-3 or 205.

Marketing functions, agencies, systems, retailing, and marketing analysis; problems in marketing; elements of sales management.

Mr. Moen.

### Econ. 315. Advertising.

3-0-0

Prerequisite: Econ. 201-2-3. Principles of advertising.

Mr. Moen.

# Econ. 318. Money and Credit.

3-0-0

Prerequisite: Econ. 201-2-3 or 205.

The functions, history and development of money and credit; contemporary policies and relation to prices; interrelations of money and credit in banks and financial institutions.

Mr. Moen.

### Econ. 319. Modern Banking.

0-3-0

Prerequisite: Econ. 201-2-3 or 205.

Origin and development of banking in the United States; functions and operations of the modern bank; banking laws; Federal Reserve System.

Mr. Moen.

# Econ. 320. Corporation Finance.

0-0-3

Prerequisite: Econ. 201-2-3.

Raising and spending of funds and standards of control. Mr. Moen.

# Econ. 325-6. Industrial Management.

3-3-0

Required of seniors in Textile Engineering; elective for all others.

Prerequisite: Econ. 201-2-3.

General principles and techniques of modern scientific management. The organization, plant design, industrial equipment, purchasing, inventories, production planning, motion and time study, wage incentive, budgets. Practical application to the textile industry.

Mr. Miller.

### Econ. 331. Labor Problems.

3-0-0

Prerequisite: Econ. 201-2-3 or 205.

An economic approach to labor problems, covering such topics as insecurity, wages, hours, working conditions, substandard workers, and legislation aimed at correcting existing evils.

Mr. Strickland.

### Econ. 332. Industrial Relations.

0 - 3 - 0

Prerequisite: Econ. 201-2-3.

History, organization, activities, and policies of organized labor. Legal aspects, recent developments.

Mr. Miller.

### Econ. 333. Personnel Management.

3-0-0 or 0-3-0 or 0-0-3

Required of Textile seniors; elective for all others.

Prerequisite: Econ. 201-2-3 or 205.

Executive development, adjustment to superiors and subordinates; employee selection, training, working conditions, morale, conference technique, research, public relations; cases involving practical situations. Mr. Miller.

### Econ. 335. Time Study.

0-3-0

Prerequisite: Econ. 201-2-3.

Analysis of shop operation into elements, and the determination of the time for each element; emphasis on factors affecting job specification, and wage rate setting.

Mr. Miller.

# Econ. Ex. 337. Personal and Executive Development.

3-0-0

Prerequisite: Econ. 201- or 205 or Psych. 200.

Self management—physical surroundings, work habits, psychological and physiological factors. Mental efficiency—desirable thought habits, emotions and attitudes toward work, associates. Leadership—necessary qualifications for the executive and how to develop them.

Mr. Miller.

# Econ. 340. Transportation Problems.

0-0-3

Prerequisite: Econ. 201-2-3.

The economic aspects of transportation facilities provided by the railroads, highways, and air and water transportation agencies. Special attention to principles and problems of rate making, operation, management, valuation, coordination and government regulation.

Mr. Strickland.

# Econ. 401. Advanced Accounting.

3-0-0

Prerequisite: Econ. 301-2-3.

Problems of asset valuation such as depreciation, replacements, amortization, etc. found in all types of business organizations.

Mr. Shulenberger.

# Econ. 404-5. Principles of Cost Accounting.

0 - 3 - 3

Prerequisite: Econ. 301-2-3.

Cost finding, materials costs, labor costs, overhead costs, etc.

Mr. Shulenberger.

# Econ. 408. Survey of Statistical Methods.

3-0-0 or 0-3-0

Required of juniors in Forestry and Agricultural Economics.

Elective for all others.

Prerequisite: Econ. 201-2-3 or 205.

Methods of describing quantitative data; collection and methods of analysis of statistical material; use of charts and graphs for presenting numeral facts, ex. production data, ratio charts, etc.

Mr. Leager.

# Econ. 409. Statistical Technique.

0-3-0

Required of Juniors in Agricultural Economics.

Prerequisite: Econ. 408.

The problem of estimation, correlation (i. e., the measurement of relationship between variables) simple linear and non-linear forms; normal curve and probable error; methods of compiling.

Mr. Leager,

### Econ. 414. International Economic Relations.

Prerequisite: Econ. 201-2-3 or 205.

Backgrounds and some newer developments in international economics, with special emphasis on the position of the United States in world trade.

Mr. Green.

### Econ. 415. Investment Problems and Policies.

0 - 3 - 0

Prerequisite: Econ. 201-2-3 or 205.

Different types of investments and methods of judging them. Managing personal finances.

Mr. Moen.

### Econ. 416. Public Finance and Taxation.

0-3-0

Prerequisite: Econ. 201-2-3.

Classes of income and expenditure; incidence of different classes of taxes.

Mr. Moen.

### Econ. 418. Principles of Insurance.

0 - 0 - 3

Elective. Prerequisite: Econ. 201-2-3.

Risk as an element of all agricultural and industrial activity. Such risks as can be covered by insurance are discussed, with the appropriate form of insurance, e.g., employer's liability, workmen's compensation, fire, life, and other forms.

Mr. Shulenberger.

### Econ. 420. Public Utility Regulation.

0 - 0 - 3

Prerequisite: Econ. 201-2-3.

A critical examination of the problem of public utility regulation, including the problems of valuation, rate making, the holding company, public vs. private ownership, security regulations, and related issues. Emphasis is placed upon recent developments. Does not include the railroads.

Mr. Strickland.

# Econ. 501. Advanced Economic Theory.

3-3-0

Prerequisite: Eighteen (18) term credits in Economics.

### Econ. 502. History of Economic Doctrines.

0-0-3

Prerequisite: Econ. 501.

History of economic doctrines from the Mercantilists to the period of Ricardo.

Mr. .....

# EDUCATION: TEACHER TRAINING

For description of summer school (s) courses see Summer School Bulletin.

### Courses for Undergraduates

# Ed. 103. Occupations.

3-0-0 or 0-3-0 or 0-0-3

Elective. Required in Occupational Information and Guidance. Elective for others.

A comprehensive view of the field of occupations, supplying facts which young men are entitled to have in deciding upon their life work. The work will consist of readings, reports, discussions, and lectures by the instructors of the course and representatives of various occupations.

Mr. Boshart.

### Ed. 106. Industrial Arts.

3-3-3

Required in Industrial Arts.

Lectures, laboratory work, and visitations. Emphasis on wood, metal, electrical, and printing shop work as meeting needs of general shop teaching. Required as major or minor in Industrial Arts Education. Mr. Boshart.

### Ind. Ed. 206 (a-b). Elements of Sheet Metal Work.

3-3-0

Required in Industrial Arts, elective for others.

### Ind. Ed. 208 (a-b). Elements of Carpentry.

3-3-0

Required in Industrial Arts, elective for others.

A course giving the principles and practices of wood construction as used in the various forms of wooden structures. The work will consist of laying out of elements for floors, walls, doors, and windows, stairways, and roofs together with the more general types of finished work. Mr.

### Ind. Ed. 210 (a-b-c). Elements of Printing.

3-3-3

Required in Industrial Arts, elective for others.

This course deals with the elementary problems of printing and has as a purpose the acquainting of individuals with a better understanding of fine printing and its uses. Projects illustrating the principles will be suitable for junior and senior high school pupils.

# Courses for Advanced Undergraduates

### Ed. 303 (a-b). Educational Psychology.

3-3-0

Required of students in Education; elective for others.

### Ed. 308. Visual Aids.

0 - 0 - 3

Required of students in Education.

Prerequisite: Junior standing.

Methods and technique of visual instruction; lettering; statistical illustrating; chart, graph, and poster-making; photography; lantern-slide making; projector operation, care and use. Designed for teachers and extension workers.

Mr. Armstrong.

### Ed. 326. Shop Planning and Equipment.

3-0-0

Making plans for a convenient shop, methods of checking tools, shop layouts, safety devices, and the selection of tools and machinery. Mr. Smith.

# Ed. 332. Project Design, A, B.

3-3-0

Required in Industrial Arts. Prerequisite: M. E. 105, 106, and 107.

The designing of projects suitable for the general industrial arts laboratory of the junior and senior high school or specialized class work. Suitable materials, types of construction, and utility of projects will be considered.

Mr. Boshart.

### Ed. 344. Problems in Secondary Education.

0 - 0 - 3

Required of juniors preparing to teach industrial subjects.

Prerequisite: Ed. 303 and six other credits in Education.

Deals with the problems of secondary education, with special reference to the relationships of industrial subjects with the other elements of the program; basic principles, historical perspective; and types of teaching.

Mr. Boshart.

# Ed. 361. Organization of Teaching Materials.

3-3-3

Required of those intending to teach industrial subjects and those who because of trade experience desire to teach trade subjects. Prerequisite: Ed. 303, and six other credits in Education.

This course deals with analysis of trades and jobs to determine teaching units. These are to be arranged in teaching sequence with related subject matter, thus developing experience in analysis, course making and lesson planning.

Mr. Boshart, Mr. Smith.

# Ed. 406. Principles of Teaching.

3-0-0

Required of seniors in Agr. Ed. Prerequisite: Ed. 303.

Principles of teaching related to job of teaching vocational agriculture; motivation, directing study, teaching technique, lesson planning. Mr. Cook.

### Ed. 407. Methods of Teaching Agriculture.

5-0-0

Required of students in Agricultural Education. Prerequisite: Ed. 303, 308, or equivalents, and at least 12 credits in Agriculture.

Organization of subject matter; teaching techniques; supervised practice; textbooks and reference material; Future Farmers of America; room arrangement and equipment.

Mr. Cook.

### Ed. 408. Observation and Directed Teaching.

0-5-0

Required of seniors in Agr. Ed. Prerequisite: Ed. 303, 406, 407, and at least 12 credits in Agriculture.

Observation and teaching vocational agriculture under supervision, participation in the varied activities of the teacher of vactional agriculture.

Staff in Agricultural Education.

### Ed. 411. Evening Classes and Community Work.

0-5-0

Required of seniors in Agr. Ed. Prerequisite: Ed. 303, 406, 407, and at least 12 credits in Agriculture.

Community activities of teachers of vocational agriculture, organization and teaching evening and part-time classes.

Mr. Cook.

### Ed. 412. Materials and Methods in Teaching Agriculture.

0-5-0

Required of seniors in Agr. Ed. Prerequisite: Ed. 303, 406, 407, and 12 credits in Agriculture.

Use of illustrative and actual materials in teaching vocational agriculture; collection and preservation of specimens; chart making; practice in use of materials in directed teaching.

Mr. Armstrong.

### Ed. 416. Local Survey; Planning a Program.

0 - 3 - 0

A course designed to teach methods of surveys of local occupations, and upon the findings plan a suitable program of Industrial Education. Mr. Smith.

#### Ed. 420. Vocational Guidance.

0-3-0 or 0-0-3

Required of students in Industrial Arts and Occupational Information; elective for others. Prerequisite: Ed. 303, 344, or equivalent.

The course in vocational guidance is intended to give emphasis to the place of guidance in the school program. It treats of the development of educational and vocational guidance, its relation to personnel work, principles and practices of guidance and employment, child-labor legislation, and forms and records for school use.

Mr. Boshart.

# Ed. s421. Organization of Related Study Materials.

# Ed. 422. Methods of Teaching Industrial Subjects.

3-0-0

Required of seniors in Industrial Arts and those preparing to teach vocational classes in trades and industries. Prerequisite: Ed. 303, 344, and 326.

The basic principles of teaching in the classroom or shop. Intended for those who are teaching or preparing to teach shop and drawing courses. Emphasis will be placed on arrangement of materials, lesson planning, and conduct of class work.

Mr. Boshart and Mr. Smith.

### Ed. 423. Methods of Teaching Occupations.

3-0-0

Required of seniors expecting to teach occupational information and guidance and elective for others who are interested. Prerequisite: Ed. 303, 344, and 326.

The basic principles of teaching occupational information and guidance. Emphasis will be placed on the selection and preparation of materials, the literature available, and methods of presentation.

Mr. Boshart and Mr. Smith.

# Ed. 424. Occupational Studies.

0-0-3

Required of students of Industrial Arts and elective for others. Prerequisite: Ed. 420 and 6 additional hours in Education.

A comprehensive study of the field of occupations. The work will consist of readings, reports, discussions, lectures, and visitations. Analysis of leading occupations will be made with the idea of selecting and preparing teaching units for related subject matter courses.

Mr. Boshart.

# Ed. 426. Secondary Education in Agriculture.

0-0-3

Prerequisite: Ed. 303 and 6 other credits in Education.

School organization in the United States with special reference to agricultural education, curricula; elimination; movements in guidance and character education, with particular reference to agricultural teaching.

Mr. Cook.

### Ed. 427. Principles of Industrial Education.

0 - 3 - 0

The philosophy of industrial education, a review of Federal and State legislation pertaining to industrial education. The different kinds of schools, such as part-time, all-day trade, general industrial, and evening school. Mr. Smith.

### Ed. s428. Diversified Occupations.

3 credits

### Ed. 433. Field Work in Secondary Education.

0-3-0

Required of seniors preparing to teach Industrial subjects. Prerequisite: Ed. 326, Ed. 344.

A study of the physical equipment types of instruction, and character of work being observed. Work will consist of visits, reports, and conferences.

Mr. Boshart.

### Ed. 440. Vocational Education.

0-3-0

Required of students in Industrial Arts. Prerequisite: Ed. 303, 344, and 6 additional credits in Education.

This course dealing with the problems of vocational education is intended to give acquaintance with its underlying philosophy, its place in our education, the laws governing it, and the prevailing practices and administration. It is of particular interest to administrators and teachers who have or expect to have to do with the direction of educational work in Agriculture, Homemaking, Industry, and Commerce. It deals with all-day, evening, part-time, and general continuation class work.

Mr. Boshart, Mr. Smith.

# Ed. 444. Observation and Directed Teaching of Industrial Subjects.

3-3-0 or 0-3-3

Required of students who desire an "A" grade certificate to teach in North Carolina high schools. Prerequisite: Ed. 326, 422, 433.

Observation of and active participation in phases of teacher activity; emphasis on development of systematic procedure and ability to work independently with students. Students will work in actual situations under supervision.

Mr. Boshart, Mr. Smith.

Ed. sEx. 452. Theory of Industrial Arts.

3 credits

Ed. sEx. 454. Practical Arts Problems.

3 credits

Ed. sEx. 455. Art Studies in Industrial Art Problems.

1½ or 3 credits

#### Ed. 457. The Problems of the General and Unit Shops.

3-0-0

Intended for those who are teaching or expect to teach shop work and drawing. Its purpose is to acquaint students with the possibilities of the general shop as compared with those of the unit shop and to aid in setting up procedures for each type of shop under conditions where they can best function. Those taking this course should take parallel courses in shop instruction unless they have had considerable experience. Problems of organization, equipment, instruction sheets and their uses, and courses of study will be considered.

Mr. Boshart.

# Ed. 460. Special Problems in Teaching Agriculture.

0-3-0

A critical survey of the program of teaching vocational agriculture with emphasis on the course of study. It will include the individual problem of the students in the preparation of a course of study and teaching plans for a specific situation.

Mr. Cook and Staff.

# Ed. 461 (a-b). Trends in Teaching Vocational Agriculture. 3 or 6 credits

Prerequisites: 18 credits in Education, including 5 in Agricultural Education.

Newer procedures in Teaching Vocational Agriculture, the problems of the out-of-school farm youth, evening class instruction and the F. F. A.

Staff in Agricultural Education.

### Ed. 462 (a-b). Course of Study Problems.

3 or 6 credits

Prerequisites: 18 credits in Education, including 5 in Agricultural Education.

Selection and organization of subject matter in Vocational Agriculture, supervised practice.

Staff in Agricultural Education.

# Ed. 463 (a.b). Guidance and Individual Instruction.

3 or 6 credits

Prerequisites: 18 credits in Education, including 5 in Agricultural Education.

Individualized instruction applied to Vocational Agriculture. Study of the agricultural occupations, guidance and counseling with special reference to pupils in Vocational Agriculture.

Staff in Agricultural Education.

### Ed. 468. Measurements in Educational Psychology.

0 - 0 - 3

Prerequisite: Six credits in Psychology, supplemented by credits in related fields.

An introduction to mental and educational testing. A study will be made of the various types of mental and educational tests now in use. A critical analysis is made of the methods of devising such tests and the application of the results to the various educational activities.

Mr. McGehee.

# Ed. 469. Psychological Techniques in Student Counceling.

3-0-0

Prerequisite: 9 credits in psychology or education.

Diagnostic and remedial techniques used in counseling students with educational, vocational, and personal-emotional problems are presented and a careful analysis of these techniques made.

Mr. McGehee.

# Ed. 476. Psychology of Adolescence.

0-0-3

Prerequisite: Ed. 303 and 6 credits in Education or Psychology.

### Ed. 481. Character Education.

0 - 0 - 3

Prerequisite: Twelve credits in Education.

Nature of the problem, needs for character training, present development, agencies responsible, theories of character development, results of investigations, materials, and methods for teachers.

Mr. Cook.

### Ed. 503. Problems in Educational Psychology.

3-3-0

Prerequisite: Eighteen credits in Education and Psychology.

### Ed. 510. Administration and Supervision of Vocational Education. 3-3-0

Prerequisite: Ed. 303, 420, 508, and 344.

Administration and supervisory problems of vocational work. Considers the practices and policies of Federal and State officers, organizations and administration of city and consolidated systems, and individual school departments for Vocational Education. For graduate students majoring in Education.

Mr. Boshart.

### Ed. 512. Occupational Counseling.

0-0-3

Prerequisite: Ed. 420, 508, or equivalent.

This course is intended for teachers of experience and those interested in the problems of guidance in school and life. Attention is given to group and individual counseling as it may be applied to the junior and senior high schools, colleges or placement offices, and to the procedures of conducting interviews and conferences. Information concerning occupational material will be organized, evaluated, and applied to type cases. The relation to personnel work will be considered as the functions of school and industry are studied.

Mr. Roshart.

### Ed. 516. Problems in Agricultural Teaching.

3-0-0 or 0-3-0 or 0-0-3

Prerequisite: Ed. 303, 407, and at least 12 other credits in Education and Agriculture. Experience in Agricultural Teaching will be accepted in lieu of Ed. 407.

Investigations, reports, and a critical evaluation of present practices with constructive remedies; course adapted to individual interests and needs.

Staff in Agricultural Education.

### Ed. 517. Principles of Agricultural Education.

3-0-0 or 0-3-0 or 0-0-3

Prerequisite: Eighteen credits in Education and Agriculture. Permission to register.

Principles and practices in Agricultural Education in the light of educational research and of changing rural conditions.

Mr. Cook.

### Ed. 520. Agricultural Education Seminar.

1-1-1

Prerequisite: Eighteen credits in Education.

A critical review of current articles and books of interest to students of Agricultural Education. Staff.

### Ed. 521. Research in Education.

3-3-3

The student will make a study of one or more research problems under the supervision of some member of the staff of the School of Education. The course will be selected on the recommendation of the member of the faculty with whom the student plans to carry on the study. Staff.

#### ELECTRICAL ENGINEERING

### Courses for Undergraduates

### E. E. 113. Electric Shop.

0-0-3

A course offered for students in Vocational Education. Practical electrical problems suitable for secondary school; electrical shop equipment.

Credit is allowed only for students in the Department of Education.

Mr. Winkler.

### E. E. 201, 202. Electrical Engineering Fundamentals.

3-3-0 or 0-3-3

Required of sophomores in E. E. Concurrent with Phys. 201, 202, 203. Prerequisite: Math. 102.

Fundamental laws of electric, magnetic and dielectric circuits; problem drill. Timbie and Bush, *Principles of Electrical Engineering*. Mr. Browne.

### Courses for Advanced Undergraduates

# E. E. 301, 302, 303. Electrical Engineering.

3-3-3

Required of juniors in E. E. Prerequisite: E. E. 202.

Principles, performances and characteristics of direct current apparatus, electronics, theory of periodic currents, alternating current circuits and systems. Timbie and Bush, *Principles of Electrical Engineering*. Kloeffler, Brenneman and Kerchner, *Direct Current Machinery*. Bryant and Correll, A. C. Circuits.

Mr. Fouraker, Mr. Pearsall.

### E. E. 305, 306, 307. Electrical Engineering Problems.

1-1-1

Required of juniors in E. E. Concurrent with E. E. 301, 302, 303.

Supervised problem drill.

Mr. Fouraker.

# E. E. 311, 312, 313. Electrical Engineering Laboratory.

2-2-2

Required of juniors in E. E. Concurrent with E. E. 301, 302, 303.

A laboratory course coördinated with E. E. 301. Ricker and Tucker, Electrical Engineering Laboratory Experiments.

Mr. Lear, Mr. Pearsall, Mr. Keever, Mr. Brown, Mr. Glenn, Mr. Winkler.

# E. E. 320, 321. Elements of Electrical Engineering I.

3-3-0 or 0-3-3

Required of juniors in Chem E., C. E., H. E., Constr. E., and San E., and of seniors in Cer. E., Geol. E., and Min. E., and in Industrial Management. Prerequisites: Math. 202, Phys. 203.

Principles, characteristics and operation of electric equipment and systems. Daws, *Industrial Electricity*.

Mr. Lear, Mr. Pearsall, Mr. Glenn, Mr. Winkler.

### E. E. 331, 332, 333. Elements of Electrical Engineering II.

4-4-4

Required of seniors in M. E., and Gen. E. and of juniors in Industrial Engineering. Prerequisites: Math. 202, Phys. 203.

Principles, characteristics, and operation of electric equipment. Loew, Direct and Alternating currents.

Mr. Keever, Mr. Pearsall, Mr. Glenn, Mr. Winkler.

#### E. E. 343. Electrical Equipment of Buildings.

0-0-3

Required of juniors in Construction Engineering and seniors in Architectural Engineering. Prerequisite: Phys. 203.

Wiring of buildings for light and power; selection of motors and lighting equipment. Moyer and Wostrel, *Industrial Electricity and Wiring*.

Mr. Lear, Mr. Winkler.

# Courses for Graduates and Advanced Undergraduates

### E. E. 433. Electric Distribution.

0 - 0 - 3

Required of seniors in E. E. Prerequisite: E. E. 401. Low voltage distribution systems.

Mr. Keever.

### E. E. 401, 402. Alternating Current Machinery.

4-4-0

Required of seniors in E. E. Prerequisite: E. E. 303.

Principles and characteristics of alternating current machinery. Bryant and Johnson, Alternating Current Machinery. ... Mr. Fouraker, Mr. Keever.

### E. E. 411, 412, 413. Electrical Engineering Laboratory.

2-2-2

Required of seniors in E. E. Concurrent with E. E. 401, 402, 403.

A laboratory course coördinated with classroom work. Ricker and Tucker, Electrical Engineering Laboratory Experiments.

Mr. Keever, Mr. Pearsall, Mr. Glenn, Mr. Winkler.

### E. E. 403. Electric Transmission.

0-0-4

Prerequisite: E. E. 402.

Theory and characteristics of electric circuits for high tension transmission of power. Bryant and Correll, Alternating Current Machinery.

Mr. Fouraker, Mr. Keever.

# E. E. 421, 422, 423. Electric Power Applications (Optional with E. E. 425, 426, 427).

3-3-3

Prerequisites: E. E. 303, 307.

Selection of electrical equipment for industrial applications, control equipment; electric traction, electric power plants.

Mr. Browne.

# E. E. 425, 426, 427. Electric Communication (Optional with E. E. 421, 422, 423).

3-3-3

Prerequisites: E. E. 303, 307.

Circuits and equipment for wire communication; radio and carrier current systems. Everitt, Communication Engineering. Mr. Fouraker, Mr. Glenn.

#### E. E. 437. Illumination.

0-0-3

Required of seniors in E. E. Prerequisite: E. E. 303, 307.

Characteristics of electric lamps; electric lighting systems. Kunerth, Textbook of Illumination.

Mr. Lear.

# 0-0-3

# E. E. 453. Power Network Calculations.

Prerequisite: E. E. 402.

The method of symmetrical components applied to fault calculation in power system networks. Equivalent impedances of short and long lines with and without terminal grounding and for ground wires, transformer banks, synchronous machines, asynchronous machines. Syntheses of complete systems, with calculations of fault currents for different types of faults.

Mr. Brown.

# E. E. 441, 442, 443. Electrical Measurements in Industry.

3-3-3

Prerequisite: E. E. 303 or E. E. 322 or E. E. 333.

Theory and practice of electrical measurements in industry. Instruments and meters, indicating, recording, and integrating types; bridges; potentiometers; thermo-couples; resistance pyrometers; electro-optical pyrometers; photo-electric cells and tubes; amplifiers; relays; strobo-scopes; humidity meters; electrical pressure gauges. A discussion of industrial applications and methods.

Mr. Brown.

# Courses for Graduates Only

# E. E. 501, 502, 503. Fundamental Principles in Electrical Engineering.

3-3-3

Prerequisite: E. E. 433, 402.

Review of fundamentals in electrical circuit theory; operational calculus methods, transients in electrical, mechanical, and thermal circuits; transients in non-linear circuits; point-by-point solutions; power transmission; stability; control problems and design of control equipment; special applications.

Mr. Fouraker and Mr. Brown.

# E. E. 505, 506, 507. Electrical Engineering Seminar.

1-1-1

Prerequisite: Graduation in E. E.

A series of papers and conferences of junior instruction staff and students who are candidates for advanced degrees in electrical engineering, held for the purpose of reviewing the developments in electrical engineering fields of practice and research. Special attention to be given to the methods of collecting, analyzing, and presenting data in a comprehensive manner.

Mr. Browne, Mr. Brown.

# E. E. 521, 522, 523. Engineering Electronics.

4-4-4

Prerequisite: Graduation in E. E.

Electron tubes in industry, including studies of various types of tubes as rectifiers, amplifiers, oscillators, control devices, photo-electric devices, oscil-

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loscopes, etc. Electro-kinetic theory of gases, potential distribution, and characteristics of different types of conduction studied in detail. Associated circuits. This course includes coordinated laboratory experiments.

Mr. Brown.

# E. E. 531, 532, 533. Illumination Engineering.

3-3-3

Prerequisite: Graduation in E. E.

Fundamental theory combined with broad survey of field, followed by detailed treatment of point sources, surface radiation, symmetric and asymmetric distribution; applications. The photo-chemical theory of vision, visual measurements, applications to design.

Mr. Brown.

# E. E. 550. Electrical Engineering Research.

9 credits

Acceptance as candidate for Master's Degree.

Individual research in field of Electrical Engineering for the purpose of extending knowledge. Students may elect to conduct their research along technical electrical engineering lines, or in some allied field such as economics of engineering, mathematical methods, etc. Report shall be in form of Master's thesis.

Mr. Browne, Mr. Brown.

# **ENGINEERING MECHANICS**

# Courses for Advanced Undergraduates

# E. M. 301. Engineering Mechanics (Abridged).

3-0-0 or 0-3-0

Required of students in Cer. E., Ch. E., Geol. E., and I. E. Also required of students in Agr. Eng. Prerequisite: Math. 202. Co-requisites: Math 303 and Phys. 201.

Statics: Concurrent, parallel and non-concurrent force systems; the determination of their resultants and conditions of equilibrium. Friction, centroids and moments of inertia. Poorman, Applied Mechanics.

Messrs. Smith, Conner, Feltner, and Massey.

# E. M. 302. Engineering Mechanics (Abridged).

0-3-0 or 0-0-3

Required of students in Cer. E., Ch. E., Geol. E., and I. E. Also required of students in Agr. Eng. Prerequisites: E. M. 301 and Math. 303.

Kinematics: The motion of bodies without considering the manner in which influencing factors affect the motion. Kinetics: The motion of bodies as affected by unbalanced forces. Poorman, Applied Mechanics.

Messrs. Smith, Conner, Feltner, and Massey.

### E. M. 311. Engineering Mechanics.

3-0-0 or 0-3-0 or 0-0-3

Required of all students in Engineering except Cer. E., Ch. E., Geol. E., and I. E. Prerequisite: Math. 201. Co-requisites: Math. 202 and Phys. 201.

Statics and Friction: Study of concurrent, parallel and non-concurrent systems of both coplaner and non-coplaner forces. The application of statics to the solution of fundamental engineering problems, including statical friction. Seely and Ensign, Analytical Mechanics for Engineers.

Messrs. Smith, Conner, Feltner, and Massey.

### E. M. 312. Engineering Mechanics.

3-0-0 or 0-3-0 or 0-0-3

Required of all students in Engineering except Cer. E., Ch. E., Geol. E., and I. E. Prerequisites: E. M. 311 and Math. 202. Co-requisites: Math. 303.

Kinematics, centroids and moments of inertia. Seely and Ensign, Analytical Mechanics for Engineers. Messrs. Smith, Conner, Feltner, and Massey.

### E. M. 313. Engineering Mechanics.

3-0-0 or 0-3-0 or 0-0-3

Required of all students in Engineering except Cer. E., Ch. E., Geol. E., and I. E. Prerequisites: E. M. 312 and Math. 303.

Kinetics: The motions of particles of rigid bodies as they are affected by the action of unbalanced forces. The Newtonian laws of motion, work and energy, power, impulse and momentum are studied and their applications to special engineering problems are illustrated. Seely and Ensign, Analytical Mechanics for Engineers.

Messrs. Smith, Conner, Feltner, and Massey.

#### E. M. 320. Strength of Materials (Abridged).

3-0-0 or 0-0-3

Required of Engineering students in Chem. E., E. E., and Ind. E. Also required of students in Agr. Eng. Prerequisites: E. M. 302 or E. M. 312, Math. 303.

A study of the stresses and strains in engineering materials. The study includes tension, compression, shear and torsion; also bending moments and shear in beams. The fibre stresses in simple beams and their distribution throughout the cross section are analyzed. An elementary conception of the deflection of beams and working principles for the design of columns are discussed. Seely, Resistance of Materials.

Messrs. Smith, Conner, Feltner, and Massey.

#### E. M. 321. Strength of Materials.

0-3-0 or 0-0-3

Required of all students in Engineering except Chem. E., E. E., Geol. E., and Ind. E. Prerequisites: E. M. 302 or E. M. 312, and Math. 303. Corequisite: E. M. 313.

A study of the stresses and strains in engineering materials. The study includes tension, compression, shear, and torsion, with emphasis on the appli-

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cations to engineering structures. Bending moments and shear in simple beams. The fibre stresses in beams and their distribution throughout the cross section are studied in detail. Timoshenko and McCullough, Elements of Strength of Materials.

Messrs. Smith, Conner, Feltner, and Massey.

### E. M. 322. Strength of Materials.

3-0-0 or 0-0-3

Required of all students in Engineering except Chem. E., E. E., Geol. E., and Ind. E. Prerequisite: E. M. 321.

A continuation of E. M. 321. Various methods are studied for finding the deflection of beams. The determination of stresses in statically indeterminate beams; the study of columns. Combined stresses. Timoshenko and McCullough, Elements of Strength of Materials.

Messrs. Smith, Conner, Feltner, and Massey.

### E. M. 330. Fluid Mechanics.

3-0-0, 0-3-0, or 0-0-3

Required of students in Ch. E., C. E., E. E., Geo. E., M. E. Prerequisites: E. M. 302 or E. M. 313.

A study of the fundamental principles of mechanics of fluids. The course includes properties of fluids; intensity of pressure; hydrostatic pressure on areas; applications of hydrostatics; kinematics of fluid flow; dynamics of fluid flow; applications of hydrokinetics; friction losses in pipes; flow through pipes; dynamic forces. Daugherty: *Hydraulics*.

Messrs. Conner, Riddick, and Massey.

#### E. M. 331. Hydraulics.

3-0-0 or 0-3-0

Required of students in E. E. and M. E.

Prerequisite: E. M. 330.

The application of the principles of fluid mechanics to hydraulic pumping and power machinery. The study includes impulse and reaction type turbines; turbine laws and factors; water power plants; pumping machinery, reciprocating and centrifugal pumps; efficiency, capacity, and selection of pumps. Daugherty: *Hydraulics*, and *Notes*.

Messrs. Conner, Riddick, and Massey.

### E. M. 332. Hydraulics.

0-3-0 or 0-0-3

Prerequisite: E. M. 330.

The application of the principles of fluid mechanics to various hydraulic structures and measuring devices. The study includes dams, bouyant force and flotation; weirs, orifices, gates; forces exerted by fluids, flow in open channels; models of open channel flow; flow in pipe lines. Daugherty: Hydraulics, and Notes.

Messrs. Conner, Riddick, and Massey.

# Courses for Graduates and Advanced Undergraduates

# E. M. 401. Advanced Strength of Materials.

3-0-0

Elective for Engineering seniors and graduate students. Prerequisite: E. M. 320 or E. M. 322.

Detailed study of the deflections of beams, special types of beams, and statically indeterminate systems. Various methods of studying the topics will be discussed and compared. Timoshenko, Strength of Materials.

Mr. Smith.

#### E. M. 402. Advanced Fluid Mechanics.

0-3-0

Elective for Engineering seniors and graduates.

Prerequisite: E. M. 330.

A study of more advanced problems than taken up in E. M. 330. Kinematics of fluid flow, conformal mapping, laminar and turbulent flow, the boundary layer, flow around immersed bodies, closed conduits. Instructor's notes and selected references. Mr. Conner.

# E. M. 404. Vibration Problems.

0 - 0 - 3

Elective for Engineering seniors and graduate students.

\*Prerequisites: E. M. 320 or 322, Math. 431a or 431b.

Fundamental vibratory systems of one degree of freedom. Balancing of rotating systems, calculation of critical speeds of rotating shafts; vibrating instruments. Systems of several degrees of freedom. Den Hartog, Mechanical Vibrations. Mr. Conner.

# Courses for Graduates Only

#### E. M. 501. Advanced Strength of Materials.

3-0-0

Prerequisites: E. M. 401, Math. 431a or 431b.

A study of more advanced problems than taken up in E. M. 320 or E. M. 322. Energy of strain, Castigliano's Theorem, impact, Maxwell's Theorem, Mohrs circle. Timoshenko, Strength of Materials. Mr. Smith.

# E. M. 502. Applied Elasticity.

0 - 3 - 0

\*Prerequisites: E. M. 401, Math. 431a or 431b.

Stress analysis of machine parts, stress concentration, stress in curved bars, torsion and bending in prismatical bars. Stress in thick-walled cylinders, fly wheels, shrink fits. Timoshenko, Strength of Materials. Mr. Smith.

<sup>\*</sup> Math. 411. 412 are desirable.

# E. M. 503. Applied Elasticity.

0-0-3

\*Prerequisites: E. M. 502, Math. 431a or 431b.

Thin bars, plates and slabs in compression, tension, or combined compression and tension. Built-up columns. Timoshenko, *Strength of Materials*.

Mr. Smith.

# E. M. 505. Research in Strength of Materials.

3-3-3

Special problems and investigations.

Mr. Smith.

# \*E. M. 506. Research in Mechanical Vibrations.

3-3-3

Prerequisite: E. M. 404.

Special problems and investigations.

Mr. Conner.

#### \*E. M. 507. Research in Fluid Mechanics.

3-3-3

Prerequisites: E. M. 402.

Special problems and investigations.

Mr. Conner.

#### **ENGLISH**

## Freshman English

Eng. 101, 102, 103. Composition.

3-3-3

Required of all freshmen.

The course is designed to eliminate defects in composition and to develop such proficiency as the student has already attained. Reading and analysis of literary types, with emphasis upon both composition and appreciation; directed supplementary reading collateral with class study; frequent themes, exercises, and reports; conferences.

Staff.

#### Writing

#### Eng. 211. Business English.

3 or 3 or 3

Prerequisite: Eng. 101, 102, 103.

Practical application of the principles of composition; types of letters; form, style, and tone of effective correspondence; intensive word study. Conferences.

Messrs. Wilson and Shelley.

<sup>\*</sup> Math. 411, 412 are desirable.

# Eng. 216. Advanced Article Writing.

0-3-0

Prerequisite: Eng. 101, 102, 103, and 215 or equivalent.

A continuation of Eng. 215, with intensive practice in writing and criticizing non-technical articles. Subjects determined by student's interest. Vocabulary building; collateral reading.

Mr. Wynn.

# Eng. 215. Principles of News and Article Writing.

3-0-3

Prerequisite: Eng. 101, 102, 103.

Introduction to, and some practice in writing, simple news articles. Emphasis is placed on writing and class criticism of non-technical newspaper and magazine articles. Vocabulary building; collateral reading. (Class limited to twenty students.)

Mr. Wynn.

# Eng. 222. Advanced Composition.

0 - 3 - 0

Prerequisite: Eng. 101, 102, 103.

A comprehensive study and practice in original and imaginative composition, with emphasis upon the essay, verse, short-story, and the one-act play. Class criticism; conferences.

Mr. Shelley.

# Eng. 321. Technical Writing I. (For students in Engineering). 3 or 3 or 3

Prerequisites: Eng. 101, 102, 103, 211, 231, and one term of literature.

Principles of writing engineering reports, articles, and papers for public delivery. Readings in essays and technical periodicals. Term papers in library research and technical report writing.

Mr. Fountain.

# Eng. 323. Technical Writing II. (For students in Agriculture and Forestry).

0-0-3

Prerequisites: Eng. 101, 102, 103, and required sophomore English courses. Fundamentals of style in professional writing. Reports, articles, papers. Term papers in library research and in professional reports. Mr. Fountain.

#### Speech

# Eng. 231. Public Speaking.

3 or 3 or 3

Prerequisite: Eng. 101, 102, 103.

Speech organization and effective delivery; extempore speeches; audience motivation and use of motivating process; acquisition of ease before audience.

Messrs. Paget, Fountain, Wynne.

# Eng. 236. Parliamentary Practice.

0 - 2 - 0

Not to be counted toward the fulfillment of any requirement in English. Prerequisite: Eng. 101, 102, 103.

Rules and customs of assemblies, including organization, motions; participation in and conduct of meetings; parliamentary strategy. Mr. Paget.

# Eng. 237. Speech Adjustment.

0 - 0 - 2

Prerequisite: Eng. 101, 102, 103.

Poise and pleasing communicative habits in all group contacts; habits of speech, posture, action, and language.

Mr. Paget.

# Eng. 331. Persuasion.

3-0-0

Prerequisite: Eng. 231 or equivalent.

Psychological forces, methods of conciliation, securing and holding attention, and winning response; extempore speeches and discussions.

Mr. Paget.

# Eng. 332. Argumentation and Extemporaneous Speaking.

0-3-0

Prerequisite: Eng. 231 or equivalent.

Analysis, brief-drawing and evidence, and methods of proof and refutation; fundamentals of conviction; humanness and forcefulness; extempore speeches, debates, and discussions.

Mr. Paget.

# Eng. 333. Public Address.

0 - 0 - 3

Prerequisite: Eng. 231 or equivalent.

Public addresses for special occasions, including announcement, speech of introduction, committee-room speech, personal conferences, after-dinner speech, speech at professional convention, political speech, college oration, formal sales talk.

Mr. Paget.

#### Literature

# Eng. 261. English Literature I.

3-0-0

Prerequisite: Eng. 101, 102, 103.

Chief masterpieces of English literature from Beowulf through Shakespeare, with emphasis on social and historical backgrounds. Parallel readings and papers. Mr. Hartley and Staff.

# Eng. 262. English Literature II.

Prerequisite: Eng. 101, 102, 103.

Significant prose and poetry of the seventeenth and eighteenth centuries, with emphasis on the contribution of the two centuries to modern thought. Parallel readings and papers.

Mr. Hartley and Staff.

# Eng. 263. English Literature III.

0-0-3

0 - 3 - 0

Prerequisite: Eng. 101, 102, 103.

Masterpieces of the nineteenth century, with emphasis on changing literary tastes and ideas; the impact of scientific development on thought and literature. Parallel readings and papers.

Mr. Hartley and Staff.

# Eng. 265. American Literature I.

3-0-0

Prerequisite: Eng. 101, 102, 103.

A study of outstanding American literary productions in their historical setting, from the early colonial period to 1840.

Mr. Ladu.

# Eng. 266. American Literature II.

0 - 3 - 0

Prerequisite: Eng. 101, 102, 103.

A study of outstanding American literary productions in their historical setting, from 1840 to 1890.

Mr. Ladu.

# Eng. 267. American Literature III.

0-0-3

Prerequisite: Eng. 101, 102, 103.

A study of the leading American writers of the present century, with a relation of their works to the social background of the period. Mr. Ladu.

# Eng. 271. The English Novel.

3-0-0

Prerequisite: Eng. 101, 102, 103.

Analysis of representative novels of England and America, chosen to illustrate the development of the form and to provide a background for appreciating the modern novel.

Mr. Lyell.

# Eng. 272. Modern Drama.

0-0-3

Prerequisite: Eng. 101, 102, 103.

Modern plays, beginning with Ibsen; contemporary English and American productions.

Mr. Clark.

# Eng. 273. The Development of the Drama.

0-0-3

Prerequisite: Eng. 101, 102, 103.

Origin, progress, and influence; plot, characterization, and interpretation of certain readings.

Mr. Clark.

# Eng. 275. Southern Writers.

3-0-0

Prerequisite: Eng. 101, 102, 103.

Important writers, with intensive study of Poe, W. G. Simms, Sidney Lanier, Joel Chandler Harris, George W. Cable, O. Henry, Ellen Glasgow, James Branch Cabell.

Mr. Marshall.

# \*Eng. 276. English Poetry, 1830-1900.

0-3-0

Prerequisite: Eng. 101, 102, 103.

A study of major poets writing in an age of scientific progress and social change. Emphasis on Browning, Tennyson, and Arnold. Parallel reading and papers.

Mr. Hartley.

# Eng. 281. Literary Masterpieces.

3-0-0

Prerequisite: Eng. 101, 102, 103.

A background for the enjoyment of literature; an introduction to its appreciation and criteria.

Mr. Harrison.

# Eng. 282. The Short Story.

0-3-0

Prerequisite: Eng. 101, 102, 103.

An appreciation of the present-day short story through examination of development, structure, type, and style; a comprehensive term paper, or its equivalent in original short fiction.

Mr. Wynne.

# Eng. 283. The Bible as Literature.

0 - 0 - 3

Prerequisite: Eng. 101, 102, 103.

Selected books of the Old and New Testaments (King James Version.) as literary and historical documents.

Staff.

# Eng. 285. Shakespeare.

3-0-0

Prerequisite: Eng. 101, 102, 103.

An analysis of principal plays. Reports on parallel readings. Mr. Clark.

#### Eng. 286. The Romantic Period.

0-3-0

Prerequisite: Eng. 101, 102, 103.

Representative poems of Gray, Blake, Burns, Wordsworth, Coleridge, Scott, Southey, Byron, Shelley, and Keats.

Mr. Clark.

<sup>\*</sup> Not offered in 1940-41.

# Eng. 287. Modern Biography.

0 - 0 - 3

Prerequisite: Eng. 101, 102, 103.

A study of short modern biographies by representative American and British writers; collateral reading in longer biographical works; reports and assignments for investigation. Mr. Shelley.

# Eng. 291. The Eighteenth Century.

0 - 3 - 0

Prerequisite: Eng. 101, 102, 103.

Chief masterpieces of English literature from Alexander Pope to nineteenth century; collateral reading; reports. Mr. Hartley.

### Eng. 292. Contemporary British Literature.

0 - 0 - 3

Prerequisite: Eng. 101, 102, 103.

An introduction to chief figures in contemporary British literature: Kipling, Galsworthy, Wells, Bennett, Conrad. Collateral reading; term paper. Mr. Ladu.

#### ETHICS AND RELIGION

#### Courses

# Rel. 301. Introduction to Religion.

3-0-0

Prerequisite: Junior or Senior standing.

Characteristics of the major religious sects of America and brief survey of recent trends in religious thought. Mr. Hicks.

#### Rel. 302. The Life of Jesus.

3-0-0

Prerequisite: Junior or Senior standing.

The career of Jesus of Nazareth as recorded in the Synoptic Gospels and interpreted against the religious, economic, and political background of the age in which Jesus lived. Mr. Hicks.

# Rel. 303. The Teachings of Jesus.

0 - 3 - 0

Prerequisite: Junior or Senior standing.

The ethical and religious teachings of Jesus as recorded in the Synoptic Gospels, with special emphasis on the contrast between the teachings of Jesus and his contemporaries. Mr. Hicks.

# Rel. 304. Comparative Religion.

0-3-0

Prerequisite: Junior or Senior standing.

Brief history, general characteristics, and social significance of the greater living religions of the world. Mr. Hicks.

#### Ethics 405. Social Ethics.

Prerequisite: Six term credits in Religion, Psychology, or Sociology.

Review of the ethical codes of the larger professional groups, with analysis of the nature, evolution, and significance of moral values.

Mr. Hicks.

# Rel. 406. Problems of Religion.

0-0-3

Prerequisite: Six term credits in Religion, Psychology, or Sociology.

Religious verities in an age of science and the perplexing problems of the church in modern times.

Mr. Hicks.

# Ethics 407. Ethical Problems of Adolescence.

3 credits

Prerequisite: Six term credits in Religion, Psychology, or Sociology.

A study of typical adjustment problems of modern youth, with special consideration to changing sex standards and the evolution of new values in this connection.

Mr. Hicks.

# Rel. 408. Christian Personality in Its Psychological Aspects.

3 credits

Prerequisite: Six term credits in Religion, Psychology, or Sociology.

An analysis of the psychological validity of the principal ethical teachings of the Sermon on the Mount with emphasis on the relationship of religious attitudes and practices to mental and emotional stability and maturity.

Mr. Hicks.

# Ethics 409. Problems of Marital Adjustment.

3-0-0 or 0-3-0 or 0-0-3

Prerequisite: Six term credits in biological or social science. Sections limited to 25 students.

The practical application of pertinent findings of biological and social science to personal problems of premarriage and postmarriage adjustment. Lectures, discussions, and personal conferences.

Mr. Hicks.

# FIELD CROPS AND PLANT BREEDING

### Courses for Undergraduates

#### F. C. 201. Cotton.

3-0-0

Required of sophomores in Textiles.

Lectures and recitations on the history, botany, and physiology of the cotton plant; comparative study of varieties; microscopic studies of the fiber, and a study of the physical properties of the fiber as it affects milling quality.

Mr. Davis.

## F. C. 202. General Field Crops.

0-3-0 or 0-0-3

Required of sophomores in Agriculture.

A standard introductory course. Emphasis is given to the economic production of field crops as used in well-balanced cropping systems.

Mr. Davis, Mr. Rigney.

# F. C. 212. Cotton Classing I.

0-3-0

Required of sophomores in Textile Manufacturing, Chemistry and Dyeing, and Designing.

A study of the universal standards of American upland cotton for grade and staple. Factors that determine grade, and their relative value. Practice consists of classing and stapling from three to five thousand samples of cotton.

Mr.

# Courses for Advanced Undergraduates

#### F. C. 302. Cereal Crops.

0-3-0

Required for Field-Crop majors.

Advanced study of the various factors that should be considered in the economic production of corn and small grains. Mr. Middleton, Mr. Rigney.

#### F. C. 312. Tobacco Production.

0-3-0

This course, or F. C. 323, required of students in General Agriculture.

Lectures and recitations on the history, production, adaptation, type, and varieties of tobacco; its cultivation, harvesting, grading, and marketing.

Laboratory consists of variety studies and the grading of tobacco. Mr. Davis.

#### F. C. 323. Cotton Production.

0-0-3

This course, or F. C. 312, required of students in General Agriculture.

Lectures and recitations on the history, production, adaptation, type, and varieties of cotton; its cultivation, harvesting, grading, and marketing. Laboratory consists of variety studies, and the classing of cotton lint.

Mr. Davis.

# Courses for Graduates and Advanced Undergraduates

#### F. C. 402. Cotton Classing II.

0-3-0

Elective for juniors or seniors.

# F. C. 411. Advanced Cotton Classing.

3 or 3 or 3

Prerequisite: F. C. 212 or 402. For men who expect to become specialists in cotton classing.

This course will prepare men to take the U. S. Civil Service examination for cotton classing.

Mr. ......

#### F. C. 441. Seed Judging.

3-0-0

Advanced study of quality in crop seeds and the standards for seed certification. Arranging and judging of crop exhibits. Mr. Davis, Mr. Rigney.

#### F. C. 443. Pastures and Forage Crops.

0-0-4

Prerequisite: F. C. 202. Required of Field Crops, Soils, and Animal Production majors.

An advanced study of the production and preservation of the principal forage crops. Special attention is given to the production and maintenance of pastures.

Mr. Lovvorn, Mr. Rigney.

# F. C. 451. Market Grading of Field Crops.

3-0-0

Required of students in Animal Production.

A study and application of the Federal Standards for Market grades as applied to field crops.

Mr. Davis, Mr. Rigney.

#### F. C. 461. Taxonomy of Field Crops.

3-0-0 or 0-0-3

A study of the origin, botanical classification, identification, and adaptation of the commercially important crops and their varieties grown in America.

Mr. Davis, Mr. Rigney.

# F. C. 463. Plant Breeding.

0-0-3

Prerequisites: Zool. 411. Required of students in Floriculture, Plant Pathology, Pomology and Vegetable Gardening.

Lectures, field and laboratory exercises, including methods and principles of plant breeding.

Mr. Harvey.

### F. C. 472-473. Experimental Methods.

0 - 3 - 3

A study of the development in agricultural experimental work and the experimental technique as developed to date by soil-fertility, crop and cropbreeding tests and demonstrations.

Mr. Rigney.

### F. C. 481-482-483. Senior Seminar.

1-1-1

Prerequisite: Twelve credit hours in Field Crops.

Scientific articles, progress reports in research and special problems of interest to agronomists will be assigned, and reviewed with discussion by students and members of the Agronomy Staff.

Staff.

# F. C. 491-492-493. Crop Research.

3-3-3

Prerequisite: Twelve credit hours in Field Crops.

Special problems in various phases of crop investigation. Problems may be selected or will be assigned. Emphasis will be placed on review of recent and current research.

Staff.

# Courses for Graduates Only

# F. C. 501-502-503. Advanced Cotton Production.

3-3-3

Prerequisite: F. C. 323.

Advanced study of cotton production problems.

Staff.

#### F. C. 511-512-513. Advanced Tobacco Production.

3-3-3

Prerequisite: F. C. 312 and ten additional credit hours in Field Crops.

Advanced study of tobacco production problems.

Staff.

#### F. C. 521-522-523. Seminar.

1-1-1

Prerequisite: Fifteen credit hours in Field Crops.

Scientific articles, progress reports in research, and special problems of interest to Agronomists will be assigned, reviewed, and discussed by students and members of the Agronomy Staff.

Staff.

#### F. C. 531-532-533. Research.

3-3-3

Prerequisite: Fifteen credit hours in Field Crops.

A study of special problems and methods of investigation. A student may select a problem in any phase of crop production or breeding. Staff.

#### FORESTRY

#### Courses for Undergraduates

# For. 101, 102, 103. Elementary Forestry.

1-1-1

Required of freshmen in Forestry.

Study of the nature and development of forests of the world, with special study of the forests of the United States. A correlation of all sciences required in forestry. Field trips are included.

Mr. Hofmann.

# For. 111. Principles of Forestry.

3-0-0

Required of sophomores in Agriculture.

Elective for junior and senior students not in Forestry.

Forest conditions in the United States and the relation of the forest problems to other fields of industry. World forests as related to local and national problems.

Mr. Slocum and Mr. Miller.

# For. 202. Wood Technology.

0 - 3 - 0

Required of sophomores in Forestry. Prerequisite: Bot. 203.

Microscopic slides of the conifers and broad-leaved trees are studied in order to determine the occurrence, form, and structure of the wood elements. Identification by means of the hand lens is especially emphasized.

Mr. Slocum.

# For. s204. Silviculture.

3 credits

Sophomore summer camp. Prerequisites: Bot. 211, 213.

Study of growth and development of forest stands. Establishment and measurement of sample plots.

Mr. Miller, Mr. Slocum.

### For. s214. Dendrology.

3 credits

Sophomore summer camp. Prerequisite: Bot. 211, 213.

Identification and study of trees in Piedmont, Coastal, and Mountain sections of North Carolina.

Mr. Slocum, Mr. Miller.

# For. 301. Timber Preservation.

3-0-0

Elective for juniors and seniors in Forestry. Prerequisite: For. 202.

Lumber and timber preservatives and their use. Methods of preservation.

Relation of preservation to forestry and industry. Field trip to industrial plant.

Mr. Slocum.

#### Courses for Advanced Undergraduates

#### For. s304. Mensuration III.

3 credits

Sophomore summer camp. Prerequisite: C. E. 221, 222. Field data for stand and yield tables, stem analysis, and timber surveys.

Mr. Slocum, Mr. Miller.

#### For. 311. Silviculture I.

3-0-0

Required of juniors in Forestry. Prerequisite: For. s204.

Factors affecting tree growth and distribution. Forest regions, sites, stands, and types. Silvical requirements of important tree species.

Mr. Miller.

# For. 312. Silviculture II.

0-3-0

Required of juniors in Forestry.

Production, collection, extraction, storage, and planting of forest-tree seeds.

Mr. Slocum.

# For. 313. Nursery Practice.

1 or 1 or 1

Preparation, seeding, watering, and weeding of seed beds in school nursery.

Mr. Slocum.

# For. 321. Forest Products.

3-0-0

Required of seniors in Forestry. Prerequisite: For. 202.

A study of the source and method of obtaining derived and manufactured forest products other than lumber.

Mr. Wyman.

# For. 322. Naval Stores.

0-3-0

Elective for juniors in Forestry.

Methods of turpentining woods practices. Factors influencing oleoresin yields. Stilling practices. Integration with other forest products utilization.

Mr. Wyman.

# For. 323. Forest Utilization.

0 - 0 - 2

Required of seniors in Forestry.

The problems of more complete utilization of forest resources. Utilization of present waste in commercial practice.

Mr. Wyman.

# For. 332. Forest Policy.

0 - 3 - 0

Elective for juniors in Forestry.

The forest as a natural resource. Economic services of the forest. History and present condition of American forests. Forests from the standpoint of land use. Public forests and their place in a national program of forestry. Problems of private forestry. Cooperation by public agencies with private forest owners.

Mr. Miller.

# For. 333. Methods of Research in Forestry.

0-0-3

Elective for juniors in Forestry. Prerequisite: For. s204.

Methods of research used by the United States Forest Service, experiment stations, the Madison Laboratory, and State and private research organizations. Sample plot technique.

Mr. Miller.

# For, 342. Forest Protection and Improvements.

0 - 3 - 0

Required of juniors in Forestry. Prerequisite: For. s204.

Organization and operation of fire prevention and control methods. Forest road and telephone construction and maintenance. Mr. Hofmann.

# Courses for Graduates and Advanced Undergraduates

### For. 402, 403. Mensuration I, II.

0 - 3 - 3

Required of juniors in Forestry. Prerequisite: For. s304.

The measurement of timber, both standing and felled: log rules, form factors, stem analysis and growth.

Methods of making volume, growth, and stand tables. Increment and yield studies.

Development of stand and yield tables from field data. Timber surveys. Mr. Slocum.

#### For. 411. Silviculture III.

3-0-0

Required of seniors in Forestry. Prerequisite: For. 312.

Methods of cutting to secure natural regeneration. Intermediate cuttings and their effect on the stand. Forest protection. Mr. Miller.

#### For. 412. Silviculture IV.

0-3-0

Required of seniors in Forestry.

The application of silvicultural methods in the forests of the United States. Mr. Miller.

# For. 421. Logging.

3-0-0

Required of seniors in Forestry. Prerequisite: For. 311.

The logging industry and transportation methods. Logging costs. Application of methods to specific conditions. All forest regions are covered, discussing the problems of each. Mr. Wyman.

### For. 422. Lumbering.

0 - 3 - 0

Elective for seniors in Forestry.

The manufacture and re-manufacture, transportation and handling of lumber. Grades and grading of lumber. Mr. Wyman.

# For. 423. Lumber Seasoning.

0-0-2

Elective for seniors in Forestry.

Air-seasoning and kiln-drying of lumber. Kiln construction and operation. Defects and their control. Mr. Wyman.

# For. 431, 432. Forest Management.

3-3-0

Required of seniors in Forestry. Prerequisite: For. 311.

The principles of management of timber lands for economic returns. The normal forest is taken as the ideal. The application of regulation methods to the forest. A typical working circle as developed by the United States Forest Service is studied for each forest region.

Mr. Hofmann.

### For. 433. Advanced Wood Technology.

0-0-3

Elective for juniors and seniors in Forestry. Prerequisite: For. 202.

Advanced microscopic identification of the commercial woods of the United States. Microscopic work in anatomy and identification. Mr. Slocum.

#### For. 442. Forest Finance.

0-3-0

Required of juniors in Forestry. Prerequisite: For. 311.

Forests as investments: interest, carrying charges, financial maturity, and relation of intermediate to final and net incomes. Forest taxation, hazards in forest investments, and forest insurance.

Mr. Wyman.

# For. 443. Timber Appraisal.

0-0-2

Required of seniors in Forestry.

Field and office methods of valuing timber lands, with special reference to stumpage appraisal; the evaluation of damages to timber and forest property.

Mr. Wyman.

#### For. 452. Seminar.

0-2-0

Required of seniors in Forestry.

A round-table discussion of forestry problems, trends of development in forestry and related sciences. Forestry Faculty.

## For. 453. Senior Field Trip.

0-0-3

Required of seniors in Forestry.

An extensive survey of logging, lumbering and utilization of forest products throughout the Southeast. A complete series of reports covering all plants and operations visited is required.

Mr. Wyman.

# For. 461, 462, 463. Forestry Problems.

3-3-3

Elective for seniors in Forestry.

Assigned or selected problems in the field of silviculture, logging, lumber manufacturing, or forest management.

Staff.

# Courses for Graduates Only

For. 501, 502, 503. Advanced Forest Management Problems. 3-3-3 Complete management program for a specific forest area. Mr. Hofmann.

For. 511, 512, 513. Advanced Silviculture Problems.

3-3-3

Assigned or selected problems or experiments in silviculture. A written report required for credit.

Mr. Miller.

For. 521, 522, 523. Advanced Logging Problems.

3-3-3

Selected research logging problems of an advanced nature. Mr. Wyman.

For. 531, 532, 533. Advanced Lumber Manufacturing.

3-3-3

Selected advanced problems dealing with the manufacture and seasoning of lumber.

Mr. Wyman.

For. 541, 542, 543. Advanced Utilization Problems.

3-3-3

Problems of an advanced grade in some phase of forest utilization.

Mr. Wyman.

For. 551, 552, 553. Forest Valuation.

3-3-3

Planning, organizing, and conducting, under general supervision, an important research project in one of the fields of valuation. Mr. Wyman. For. 561, 562, 563. Problems in Research. 3-3-3

Specific forestry problems that will furnish material for a thesis.

Mr. Miller.

#### GEOLOGY

#### Courses for Undergraduates

Geol. 101. Earth History.

0 - 3 - 0

Elective. Not to be taken after Geol. 120, 220 and 222.

Introductory course in General Geology: changes in the earth, and underlying physical and life processes. Bradley, *The Earth and Its History*.

Mr. Stuckey.

# Geol. 120. Physical Geology.

4 or 4 or 4

Required of freshmen in Basic Agriculture and Agricultural Education, and of sophomores in Forestry and Landscape Architecture.

Dynamic processes acting on and within the earth; materials and makeup of the earth's crust. Lectures, laboratories and field trips. Longwell, Knopf and Flint, Outlines of Physical Geology.

Mr. Stuckey, Mr. Parker, Mr. Jones.

# Geol. 207. Ex. Physical Geography.

3-3-0

A. The processes and forces involved in the development of land forms.

B. The physiographic provinces of the United States and their importance. Some special study of the physical geography of North Carolina.

Mr. Stuckey.

# Geol. 220. Engineering Geology.

3-0-0 or 0-0-3

Prerequisite: Chem. 101.

Required of sophomores in Agricultural, Ceramic, Civil, Geological, Highway and Sanitary Engineering.

The principles of general geology and their application to engineering problems. Lectures, laboratories and field trips. Ries and Watson, *Elements of Engineering Geology*. Mr. Stuckey, Mr. Parker, Mr. Jones.

# Geol. 222. Historical Geology.

0-3-0

Prerequisite: Geol. 120 or 220.

Required of sophomores in Geological Engineering.

Major events in the history of North America; rise and development of main animal and plant groups. Lectures, laboratories and field trips. Schuchert, Outlines of Historical Geology.

Mr. Parker.

# Geol. 223. Geomorphology.

0-0-3

Prerequisite: Geol. 120 or 220.

Required of sophomores in Geological Engineering.

A systematic study of land forms and their relations to processes and stages of development and adjustment of topography to structure. Lectures, map interpretations and field trips. Lobeck, Geomorphology.

Mr. Stuckey.

# Geol. 230. Mineralogy.

3-0-0 or 0-0-3

Prerequisite: Chem. 101-103-105.

Required of sophomores in Ceramic and Geological Engineering, and of seniors in Chemical Engineering.

Crystallography, and Physical and Chemical Mineralogy. Lectures and laboratory work. Kraus and Hunt, Mineralogy. Mr. Stuckey.

# Geol. 325. Geology and Mineral Resources of North Carolina.

3-0-0

Prerequisite: Geol. 222.

Physical geography, general geology, common rocks and minerals, and mines and quarry products of the State. Lectures, laboratories and field trips. Mr. Stuckey.

# Geol. 332. Advanced Mineralogy.

0-3-0

Prerequisite: Geol. 230. Required in Geological Engineering.

A continuation of Geol. 230. Special attention to chemical and blowpipe properties of a larger group of important minerals. Lectures and laboratory work. Mr. Stuckey.

# Geol. 338. Thermal Mineralogy.

0 - 3 - 0

Required of juniors in Cer E. Prerequisite: Geol. 230 and Chem. 231.

A study of the behavior of ceramic materials as controlled by variations in composition, temperature and pressure. Mr. Stuckey.

# Geol. 352. Structural Geology.

0 - 4 - 0

Prerequisite: Geol. 120 or 220. Required in Geological Engineering.

The arrangement and deformation of the different rock masses composing the earth's crust. Lectures, laboratories and field trips. Nevin, Principles of Structural Geology. Mr. Parker.

# Geol. 353. Geophysics.

0-0-4

Prerequisites: Geol. 352, Pys. 203, C. E. 226. Required of Juniors in Geological Engineering.

Discussion of the fundamental principles underlying all geophysical methods. Procedure and instruments involved in gravitational, magnetic seismic and electrical methods. Study of applications and interpretation of results. Text: Mimeographed notes. Mr. Bramer.

# Geol. 361. Stratigraphy and Index Fossils.

3-0-0

Prerequisite: Geol. 222. Required of juniors in Geological Engineering. Distribution and conditions of origin of principal geologic formations in Southeastern United States. Key fossils characteristic of each period. Mr. Stuckey and Mr. Parker.

# Geol. 411, 412, 413. Economic Geology.

3-3-3

Prerequisites: Geol. 120 or 220; Geol. 230; Chemistry 103.

Required of seniors in Geological Engineering.

Mode of occurrence, association, origin, distribution and uses of economically valuable minerals. Lectures, laboratories and field trips. Ries, *Economic Geology*, 7th Edition. Mr. Stuckey.

# Courses for Graduates and Advanced Undergraduates

# Geol. 431, 432, 433. Optical Mineralogy.

3-3-3

Prerequisites: Geol. 230, and Physics.

Required of seniors in Ceramic and Geological Engineering.

Theory of light as applied to the polarizing microscope, practice in determining minerals in thin sections and by immersion methods. Lectures and laboratory work. Rogers and Kerr, *Thin-Section Mineralogy*.

Mr. Stuckey, Mr. Parker.

# Geol. 443. Petrology.

0-0-4

Prerequisites: Geol. 120 or 220; Geol. 230; and Chemistry 103.

Required of juniors in Geological Engineering.

Materials of the earth's crust; composition, texture, classification, identification and alterations of the principal igneous, sedimentary and metamorphic rocks. Lectures, laboratories and field trip. Tyrrell, *Principles of Petrology*.

Mr. Parker.

# Geol. 462. Advanced Engineering Geology.

0 - 3 - 0

Prerequisite: Geol. 352. Required of seniors in Geological Engineering. Analysis of geologic factors relating to specific engineering projects.

Mr. Bramer.

# Geol. 463. Field Methods.

0-0-3

Prerequisites: Geol. 352 and 441. Required of seniors in Geological Engineering.

Methods of field observation and the use of geologic surveying instruments. Construction of a complete geologic map of a specific area. Lectures, laboratories and field trips.

Mr. Parker.

# Geol. 471, 472, 473. Mining Engineering, Mine Design, Ore Dressing. 3-3-3

Prerequisites: Geol. 230, and 352; C. E. 222 and 225.

Required of seniors in Geological Engineering.

Mining methods, both open pit and underground. Mine examination and valuation. Principles of ore dressing. Problems in mine design. Young, Elements of Mining.

Mr. Bramer.

# Courses for Graduates Only

# Geol. 511, 512. Advanced Economic Geology.

3-3-0

Prerequisites: Geol. 412 and 413.

Detailed study of the origin and occurrence of specific mineral deposits.

Mr. Stuckey.

# Geol. 543. Advanced Petrography.

0 - 0 - 3

Prerequisites: Geol. 433 and 441.

Application of the petrographic microscope to the systematic and descriptive study of rocks.

Mr. Stuckey and Mr. Parker.

# Geol. 591, 592, 593. Geological Research.

3-3-3

Prerequisite: Permission of the Instructor.

Lectures, reading assignments, and reports. Special work in Geology to meet the needs and interests of the students.

Mr. Stuckey, Mr. Parker, Mr. Bramer.

#### HIGHWAY ENGINEERING

# Courses for Advanced Undergraduates

### H. E. Ex. 101. Accidents and Their Prevention.

3 credits

A general study of the problem of accidents and their prevention, including accidents in the home, in industry, in transportation and public accidents.

# H. E. 322, 323. Highway Engineering I.

0 - 3 - 3

Prerequisite: C. E. 221-2-3.

Required of all juniors in Civil Engineering.

History, economics, and administration of highways; construction and maintenance of highways; field and office methods; grading and drainage. Bruce, Highway Design and Construction.

Mr. Tucker.

# H. E. 332, 333. Materials Testing Laboratory.

0-1-1

Prerequisite: C. E. 321.

Required of seniors in Civil Engineering and one term only for juniors in A. E. and Cer. E.

The testing of materials used in construction. For the students in Civil and Highway Engineering, emphasis is placed on those materials used in

road construction; for the students in Architectural and Construction Engineering, emphasis is placed on those materials used in the building industry. Tucker, Manual in the Testing of Materials.

Mr. Tucker.

# Courses for Graduates and Advanced Undergraduates

# H. E. 421, 422. Highway Engineering II.

3-3-0

Prerequisite: H. E. 322-3.

Required of seniors in H. E.

The economic location of highways; design and construction of high-type pavements; administration of city streets. Lectures and notes.

Mr. Tucker.

### H. E. 423. Transportation.

0-0-3

Prerequisite: H. E. 322-3.

Required of seniors in C. E. and H. E.

The transportation systems; development and uses; operation and maintenance; control and methods of taxation. Lectures and notes. Mr. Tucker.

# H. E. 425, 426. Highway Office Practice and Design.

1-1-0

Prerequisite: H. E. 322-3. Required of seniors in H. E.

The preparation of road plans, the calculation of yardage and balancing of quantities; the design of sections; plans for drainage structures and short-span bridges. Lectures and notes.

Mr. Tucker.

#### Courses for Graduates Only

# H. E. 511, 512, 513. Highway Research.

3-3-3

Prerequisite: Eighteen term credits in H. E.

A study of the important research projects in the field of highway transport or that of highway engineering. The first term is usually given to the preparation of a bibliography of highway research projects; the second term is devoted to the preparation of papers on the results of specified research projects; while the third term is devoted to original research and investigation.

Mr. Tucker.

#### HISTORY AND POLITICAL SCIENCE

# Courses in History

# Hist. 101, 102, 103. Economic History.

3-3-3

An examination of the important changes in European society and the forces which produced these changes during the periods of expansion and industrialization, as a background for a general treatment of the agricultural, industrial, and commercial development of the United States.

Messrs. Barnhardt, Bauerlein, Lockmiller, Seegers.

### Hist. 104. World History.

2-2-2

Required of freshmen or sophomores who do not take Military Science.

A general survey of Western civilization from its beginning to the present day.

Mr. Barnhardt.

#### Hist. 200, 201, 202. History of the United States.

3-3-3

Elective for one, two, or three terms.

A chronological treatment of the political, diplomatic, and constitutional history of the United States in the light of its economic and social significance.

Mr. Bauerlein.

#### Hist. Ex. 203. Medieval History.

3 credits

A survey of the political, social, economic, ecclesiastical, and cultural history of Europe from the fourth century to the close of the fifteenth century.

Mr. Barnhardt.

# Hist. 204. History of Modern Europe.

3-0-0

Elective.

A survey of the economic, political, and social developments in Europe from the age of the great discoveries to the close of the eighteenth century. (Not offered in 1940-41.)

Mr. Barnhardt.

#### Hist. 205. History of Modern Europe.

0-3-0

Elective.

A survey of European history during the nineteenth century. Political, economic, and social movements emphasized in proportion to their international or European importance. (Not offered in 1940-41.) Mr. Barnhardt.

# Hist. 206. Contemporary Europe.

0-0-3

Elective.

A survey of the contemporary history of the principal European states and their international relations in the twentieth century. Mr. Barnhardt.

#### Hist. 303. North Carolina History.

0 - 3 - 0

Elective.

A general survey of the political, social, economic, and cultural developments in North Carolina, with special emphasis on the nineteenth and twentieth centuries.

Mr. Barnhardt.

### Hist. Ex. 307, 308, 309. Economic and Social History of the South. 9 credits

A study of the economic and social history of the Southern States. Lectures, readings, and reports.

Mr. Lockmiller.

## Hist. Ex. 310. American Biography.

3 credits

Representative men and women in American politics, law, religion, agriculture, industry, commerce, science, literature, and art. Mr. Lockmiller.

# Hist. 319. History of American Agriculture.

0-0-3

Required of juniors in Rural Sociology; elective for others.

Main trends in agriculture in the United States, and the place of agriculture in the economic life of the nation; special emphasis on the period since the Civil War.

Mr. Seegers.

### Hist. Ex. 320. History of Modern England.

3 credits

Survey of English political, social, economic, and diplomatic history, with emphasis on the last century.

Mr. Barnhardt.

#### Hist, Ex. 321. The Latin American Republics.

3 credits

Social, economic, and political development of Latin America since 1810.

Mr. Lockmiller.

#### Hist. Ex. 322. Contemporary History of the United States.

3 credits

Significant developments in the United States since 1914, with particular emphasis on post-war problems, foreign affairs, and the New Deal.

Mr. Lockmiller.

#### Courses in Political Science

#### \*Pol. Sc. 200. American National Government.

3-0-0

Elective.

A study of the origins, organization, and functions of the government of the United States, including constitutional decisions and the New Deal.

Mr. Lockmiller.

#### Pol. Sc. 201. State Government and Administration.

0 - 3 - 0

Elective.

A study of Federal-State relations, and the organization and administration of state and county governments. Special attention will be given to problems of government in North Carolina.

Mr. Lockmiller.

### Pol. Sc. 202. Municipal Government and Administration.

0-0-3

Elective.

A study of the history, organization, and administration of American municipal corporations. Lectures, readings, and reports. Mr. Lockmiller.

# Pol. Sc. 203. American Political Parties.

3-0-0

Elective.

The origin and development of political parties in the United States, their functions, organization, regulation, campaign methods, and elections.

Mr. Lockmiller.

#### Pol. Sc. 206. European Governments.

3-0-0

Elective.

A study of the government of England, France, Germany, Italy, and Russia.

Mr. Barnhardt.

#### HORTICULTURE

# Courses for Undergraduates

#### Hort. 203. General Horticulture.

0 - 0 - 3

Required of sophomores in Agriculture.

A course designed to give a general insight into the field of horticulture, including geographic centers of production and elements of culture of fruit, vegetable, and floriculture crops. Mr. Gardner, Mr. Randall, Mr. Weaver.

<sup>\*</sup> Not offered in 1940-41.

# Hort. 301. Plant Propagation and Nursery Practice.

3 or 3 or 3

Required of majors in Horticulture; elective for other juniors and seniors in Agriculture and Forestry.

Study of methods and practice in seedage, cuttage, separation and division, budding and grafting. Cultural principles and practices in growing nursery stock.

Mr. Randall, Mr. Weaver.

### Hort. 302. Vegetable Forcing.

0-3-0

Prerequisite: Hort. 203: Required of majors in vegetable growing; elective for other juniors and seniors in Agriculture.

Production and management of vegetable crops under glass. Practice in growing vegetables under protection.

Mr. Randall.

### Hort. 303. Vegetable Gardening.

0-0-4

Prerequisite: Hort. 203. Required of majors in vegetable growing and fruit growing; elective for other juniors and seniors in Agriculture.

Location, soil preparation, fertilization, irrigation, and general culture applicable to vegetable production.

Mr. Randall.

# Hort. 311. Small Fruits and Grapes.

3-0-0

Prerequisite: Hort. 203. Required of majors in fruit growing and vegetable growing; elective for other juniors and seniors in Agriculture.

A course in the culture and production of small fruits, including strawberries, dewberries, blackberries, blueberries, raspberries, currants, and grapes.

Mr. Gardner.

#### Hort. 313. Home Floriculture.

0-0-3

Required of majors in vegetable growing; elective for other juniors and seniors in Agriculture.

Principles and methods of growing garden flowers and house plants, including varieties and their adaptability.

Mr. Randall.

#### Hort. 321. Fruit and Vegetable Judging.

2-0-0

Prerequisite: Hort. 203. Elective for juniors and seniors in Agriculture.

Practice in variety identification, and in judging plates, collections, boxes, and commercial exhibits of fruits and vegetables. Mr. Gardner, Mr. Randall.

# Hort, 331. Fruit Growing.

4-0-0

Prerequisite: Hort. 203. Required of majors in fruit growing, vegetable growing, poultry and animal husbandry; elective for other juniors and seniors in Agriculture.

A study of factors underlying fruit production; temperature and moisture relations; culture, fertilization, pruning, fruit setting, yield, and storage.

Mr. Gardner.

#### Hort. 341. Commercial Floriculture.

4-0-0

Prerequisite: Hort. 203, 301. Required of majors in floriculture; elective for other juniors and seniors in Agriculture.

A study of the commercial production of the principal floral crops under protection and in the open, including actual planting and care of the crops.

Mr. Randall.

### Hort. 351. Fruit and Vegetable Utilization.

3-0-0

Elective for juniors and seniors in Agriculture.

Principles and methods involved in the commercial utilization of surplus and off grade products. Extraction and preservation of juices, quick freezing methods, sweet potato starch production and other manufactured products and by-products.

Mr. Jones.

#### Courses for Graduates and Advanced Undergraduates

# Hort. 401. Systematic Pomology (offered in alternate years).

2-0-0

Prerequisite: Hort. 331. Required of majors in pomology.

Fruit varieties: their description, identification, nomenclature, and classification; their relationships and adaptations. Judging methods and standards.

Mr. Gardner.

# Hort. 411. Systematic Olericulture (offered in alternate years). 2-0-0

Prerequsite: Hort. 303. Required of majors in vegetable growing.

Vegetable varieties; their description, identification, nomenclature and classification; their relationships and adaptations.

Mr. Randall.

# Hort. 412. Experimental Horticulture.

0-3-0

Prerequisite: Hort. 331, 303, 341.

A systematic study of the sources of knowledge and results of experiments in fruit growing, vegetable growing, and floriculture.

Mr. Gardner, Mr. Randall.

# Hort. 421-422-423. Horticultural Problems.

2-2-2

Required of all majors in Horticulture. Prerequisite: Twelve credit hours in Horticulture.

Systematic investigation of some phase of horticulture. Each student chooses his own subject of study and pursues it independently, under direction of the instructor.

Mr. Gardner, Mr. Randall.

# Hort. 431, 432, 433. Senior Seminar.

1-1-1

Required of all majors in Horticulture. Prerequisite: Twelve credit hours in Horticulture.

A discussion of problems of interest to horticulturists. Discussion topics are assigned to students and members of the Horticultural staff.

Mr. Gardner.

### Courses for Graduates Only

# Hort. 501, 502, 503. Methods of Horticultural Research.

3-3-3

Prerequisite: Eighteen credit hours in Horticulture.

A study of methods and procedure, outlining problems, assembling and analyzing data, and presenting results; critical review of experiment-station work.

Staff.

#### Hort. 511, 512, 513. Seminar.

1-1-1

Required of graduate students only. Prerequisite: Eighteen credit hours in Horticulture.

Assignment of scientific articles of interest to horticulturists for review and discussion; student papers and research problems for discussion.

Mr. Gardner.

#### Hort. 521, 522, 523. Research.

3-5, 3-5, 3-5

Prerequisite: Eighteen credit hours in Horticulture.

Graduate students will be required to select problems for original research in fruit growing, vegetable growing or floriculture. The work and presentation of results should be of such merit as to be worthy of publication.

Staff.

#### INDUSTRIAL ENGINEERING

### Courses for Undergraduates

# I. E. 101, 102, 103. Industrial Organization.

3-3-3

Required of sophomores in I. E.

Engineering methods in studies of industrial enterprises. Kimball, *Industrial Organization*.

Mr. Groseclose.

# I. E. 201, 202, 203. Management Engineering.

3-3-3

Required of juniors in I. E. Prerequisite: I. E. 103.

Principles of management, administration, production, and sales. Executive control, industrial relations, incentives, normal capacities, standard costs, and pricing. Budgeting and planning. Gilman, Analyzing Financial Statements.

Mr. Shaw.

# Courses for Advanced Undergraduates

# I. E. 301. Engineering Economics.

3-0-0 or 0-3-0 or 0-0-3

Required of seniors in E. E., I. E., and in M. E., Furniture Option, elective for others. Prerequisite: Econ. 203 or 205.

Principles of investments, costs and utility with applications to engineering practice. Choice of investments and replacements. Grant, *Principles of Engineering Economy*.

Mr. Groseclose.

# I. E. 312, 313. Industrial Engineering Problems.

0 - 3 - 3

Required of seniors in I. E. Prerequisite or concurrent: I. E. 201, 202, 203.

Detailed study of problems of moment in this rapidly developing field.

Mr. Shaw.

#### Courses for Graduates and Advanced Undergraduates

### I. E. 402. The Electrical Industry.

0-3-0

Required of seniors in E. E. and I. E. Prerequisite: I. E. 301.

The operation, practices, management, and performance of electric light and power companies and other electrical industries. Factors, indexes, and comparisons. Services and prices. Cost analyses and pre-determinations. Uniform System of Accounts for Electrical Utilities. Mr. Shaw.

# I. E. 412, 413. Engineering Economics Advanced.

0 - 3 - 3

Elective. Prerequisite: I. E. 301.

Comprehensive study of the application of economics to the practice of engineering.

Mr. Shaw.

# I. E. 421, 422, 423. Public Utilities.

3-3-3

Elective for seniors or graduate students. Prerequisite or concurrent: I. E. 301 or senior standing.

Public utilities and their regulation from all points of view. Services, rates, rate bases, and returns. Leading cases. Current problems. Mosher and Crawford, Public Utility Regulation.

Mr. Shaw.

### I. E. 433. Investigation and Report.

0-0-3

Required of seniors in I. E. Prerequisite: I. E. 312. Investigation of a selected and approved problem.

Mr. Shaw.

## Courses for Graduates Only

# I. E. 501, 502, 503. Industrial Engineering Research.

3-3-3

Prerequisite: Graduation in Engineering.

Investigation of problems of major importance in the field of Industrial Engineering.

Mr. Shaw.

#### LANDSCAPE ARCHITECTURE

#### Courses for Undergraduates

# L. A. 101, 102, 103. Arboriculture.

1-1-2

Required of freshmen in Landscape Architecture; elective for other students in Agriculture.

Culture of plant materials: their planting, transplanting, training, fertilization, protection from pests; tree surgery, lawn making.

Mr. Pillsbury, Mr. Weaver.

# Courses for Advanced Undergraduates

## L. A. 201, 202, 203. Plant Materials: Woody Plants.

2-2-2

Required of sophomores in Landscape Architecture and juniors in Floriculture; elective for students in other curricula. Prerequisite: Bot. 203.

Trees, shrubs, and vines: their distribution, form and habits of growth, size, texture, color, and other characteristics determining use in planting design.

Mr. Randall.

# L. A. 212, 213. Theory of Landscape Design.

Required of sophomores in Landscape Architecture; elective for students in other curricula.

Introduction to the study of landscape design: its theoretical basis; the meaning of taste; historic styles; elements, and landscape composition; planting design, and analyses of typical problems in landscape design.

Mr. Pillsbury.

#### L. A. 303. Plant Materials: Herbaceous Plants.

0-0-2

Required of juniors in Landscape Architecture; elective for students in other curricula. Prerequisite: Bot. 203.

Ornamental perennial and annual plants: height, habit of growth, texture, color, and other characteristics determining use in planting design.

Mr. Randall.

L. A. 311. 312. History of Landscape Design.

3-3-0

Required of juniors in Landscape Architecture. Prerequisite: L. A. 212, 213.

History of the art of landscape design from the ages of antiquity to modern times; sketching from illustrations of design in important periods.

Mr. Pillsbury.

# L. A. 321, 322, 323. Landscape Design I.

4-4-4

Required of juniors in Landscape Architecture. Prerequisite: L. A. 311, 312.

Problems in presentation, and in consecutive design of small properties, gardens, and other special areas and suburban estates. Mr. Pillsbury.

#### L. A. 402. Ornamental Plants.

0-2-0

Required of seniors in Vegetable Gardening and Pomology; elective for juniors or seniors in other curricula. Prerequisite: Bot. 203.

Ornamental trees, shrubs, and vines; their characteristics of use in planting design for home, school, church, and community-center grounds, and farmstead landscapes.

Mr. Randall.

# L. A. 403. Landscape Gardening.

0-0-3

Required of seniors in Vegetable Gardening, Floriculture, and Pomology. Elective for seniors in all other curricula. Prerequisite: L. A. 402, or 201, 202, 203.

Landscape planning and planting design applied to the improvement of home, school, church, community-center grounds, and farmsteads. Practice in methods of making measured surveys, mapping, and designing improvements and planting.

Mr. Pillsbury.

0-3-3

### L. A. 411, 412, 413. Planting Design.

3-3-3

Required of seniors in Landscape Architecture. Prerequisite: L. A. 201, 202, 203, and 303.

Problems in composition with plant materials, presentation, the preparation of planting plans, and cost data.

Mr. Pillsbury.

# L. A. 421, 422, 423. Landscape Design II.

4-4-4

Required of seniors in Landscape Architecture. Prerequisite: L. A. 321, 322, 323.

Problems in presentation, and in the design of small parks, and other public grounds, and institutional groups.

Mr. Pillsbury.

### L. A. 432. City Planning.

0 - 3 - 0

Required of seniors in Landscape Architecture; elective for seniors in all schools.

Origins and types of urban communities; modern city and town planning; legal, economic, social, and aesthetic phases and their inter-relationships; fundamental data required; methods of planning and financing; zoning; city and regional planning legislation.

Mr. Pillsbury.

# L. A. 442. Suburban Design.

0-4-0

Prerequisite: L. A. 321, 322, 323, and 432.

The subdivision of land as related to suburban development and urban growth.

Mr. Pillsbury.

### L. A. 451, 452, 453. Landscape Construction.

2-2-2

Required of seniors in Landscape Architecture. Prerequisite: C. E. 224, 225, 226, and 227; and L. A. 321, 322, 323.

Problems in design of ground surface, walks, and drives; preparation of plans for grading and drainage; estimates of materials and costs, and methods of execution of landscape designs.

Mr. Pillsbury.

#### L. A. 463. Office Practice.

0-0-1

Prerequisite: L. A. 451, 452, 453.

Arrangement of equipment, supplies, data, illustrative and other material in landscape offices; methods of professional procedure, and professional ethics.

Mr. Pillsbury.

#### **MATHEMATICS**

# Courses for Undergraduates

# \*Math. 111. Algebra.

4-0-0

Review of elementary topics, such as Factoring, Fractions, Simple Equations, Exponents, and Radicals. Topics then taken up are Quadratic Equations, Solution of Higher Degree Equations, Simultaneous Quadratic Equations, Logarithms, the Binomial Theorem, Arithmetic and Geometric Progressions, Permutations, Combination, and the Elementary Theory of Probability. Fisher, College Algebra.

# \*Math. 112. Trigonometry.

0 - 4 - 0

Prerequisite: Math. 111.

The study of the Trigonometric Functions with their applications to the solution of the right and oblique triangles, with numerous problems. Also a brief study of Trigonometric Equations and Identities and Inverse Functions. Practical Mensurations of Solids is taken up. Clarkson and Bullock, Trigonometry.

# \*Math. 113. Mathematics of Finance.

0 - 0 - 4

Prerequisite: Math. 112.

The principal topics are Simple and Compound Interest, Annuities, Sinking Funds and Amortization, and the Valuation of Bonds and other applications. Lee, *Mathematics of Finance*. Staff.

# \*Math. 101. Algebra for Engineers.

6-0-0

Required of freshmen in the Schools of Engineering, and in the departments of Industrial Management, Industrial Arts, and Landscape Architecture.

This course includes quadratic equations, the progressions, the binomial theorem, permutations and combinations, logarithms, the general theory of equations, the solution of higher equations, determinants and partial fractions. Fisher, College Algebra. Staff.

# \*Math. 102. Trigonometry for Engineers.

0-6-0

Required of freshmen in the Schools of Engineering, and in the departments of Industrial Management, Industrial Arts, and Landscape Architecture.

Prerequisite: Math. 101.

The trigonometric functions, derivation of formulae, the solution of plane

<sup>\*</sup> This course will be repeated the following term.

and spherical triangles, with practical applications, slide rule, complex numbers and hyperbolic functions. Clarkson and Bullock, *Plane and Spherical Trigonometry*.

Staff.

# \*Math. 103. Analytical Geometry.

0 - 0 - 6

Required of freshmen in the School of Engineering and in the Departments of Industrial Management, Industrial Arts, and Landscape Architecture.

Prerequisite: Math. 101, 102.

Loci of equations, the straight line, circle, parabola, ellipse, hyperbola, the general equation of the second degree, polar coördinates, transcendental curves, parametric equations, coördinates in space, planes and surfaces. Smith, Gale and Neelley, Elements of Analytical Geometry.

# \*Math. 201. Calculus I.

4-0-0

Required of sophomores in Engineering. Prerequisite: Math. 103.

A course in the fundamental principles of the Calculus, including the formulas for differentiation and for integration of polynomial functions, with applications to Geometry and to problems in rates, maxima and minima, curve tracing, curvature, areas, volumes, work, pressure, velocity and acceleration. Smith, Salkover, Justice, Calculus.

Staff.

# \*Math. 202. Calculus II.

0-4-0

Required of all sophomores in Engineering. Prerequisite: Math. 201.

A continuation of Calculus I. Methods of integration, and the study of the definite integral, with applications to problems in areas, volumes, lengths of arcs, surfaces, centroids, moments of inertia, radii of gyration, approximate integration. Smith, Salkover, Justice, Calculus.

Staff.

# \*Math. 303. Calculus III.

0-0-4

Required of all sophomores in Engineering. Prerequisite: Math. 202.

A continuation of Calculus II. Indeterminate forms, infinite series, expansion of functions, hyperbolic functions, partial differentiation, double and triple integrals, and differential equations. Smith, Salkover, Justice, Calculus.

# Courses for Graduates and Advanced Undergraduates

# Math. 431-a. Differential Equations.

3-0-0

Required of juniors in Electrical Engineering and elective for others. Prerequisite: Math. 303.

A short course to include the solution of standard types of equations. Numerous examples in the field of Electrical Engineering will be studied. Kells, Differential Equations.

Mr. Bullock.

<sup>\*</sup> This course will be repeated the following term.

# Math. 431-b. Differential Equations.

3-0-0

Elective. Principally for students in Chemical Engineering. Prerequisite: Math. 303.

A study of the equations that occur in Applied Chemistry. Much emphasis on graphic methods and numerical work. Phillips, *Differential Equations*.

Mr. Winton.

# Math. 432. Advanced Differential Equations for Electrical Engineers. 0-3-0

Elective. Prerequisite: Math. 431-a.

A continuation of the work given in Math. 431-a. Series solutions, approximate methods, partial differential equations, hyperbolic functions, and other topics will be studied with special emphasis on applications to problems in Electrical Engineering. Students not taking Electrical Engineering may register for the course and will be assigned individual problems in their particular field. Lecture notes.

Mr. Bullock.

# Math. 402. Graphical and Numerical Methods.

0-3-0

Elective. Prerequisite: Math. 303.

Graphical and numerical approximate methods in differentiation, integration, and the solution of both ordinary and differential equations. Theory of least squares and empirical curve fitting. Numerous examples in the fields of physics, electricity, mechanics, and engineering will be solved. Lipka, Graphical and Mechanical Computation.

Mr. Cell.

# Math. 403. Vector Analysis I.

0 - 0 - 3

Elective. Prerequisite: Math. 431 (a or b).

A study of the different vector products. The calculus of vectors with applications to geometry and mechanics. Phillips, Vector Analysis.

Mr. Clarkson.

# \*\*Math. 411. Advanced Calculus for Engineers.

3-0-0

Elective. Prerequisite: Math. 431 (a or b).

Hyperbolic functions, elliptic integrals and functions, partial differentiation of composite functions, differentiation of integrals, implicit functions. Applications to problems in engineering will be emphasized. Reddick and Miller, Advanced Mathematics for Engineers.

Mr. Levine.

# \*\*Math. 412. Advanced Calculus for Engineers.

0 - 3 - 0

Elective. Prerequisite: Math. 431 (a or b).

Power series, Gamma and Bessel functions, functions of a complex variable, line integrals. Applications to problems in engineering will be emphasized. Reddick and Miller, Advanced Mathematics for Engineers. Mr. Levine.

<sup>\*\*</sup> Math. 411, 412, 413, may be taken in any order.

# \*\*Math. 413. Series for Engineers.

0-0-3

Elective. Prerequisite: Math. 431 (a or b).

Fourier series, partial differential equations, with applications to problems in physics and engineering. Reddick and Miller, Advanced Mathematics for Engineers.

# Math. 421. Advanced Analytic Geometry.

3-0-0

Elective. Prerequisite: Math. 431 (a or b).

The elements of higher plane curves and the geometry of space. Snyder and Sisam, *Analytic Geometry*. Mr. Bullock.

# Math. 422. Theory of Equations.

0 - 3 - 0

Elective. Prerequisite: Math. 431 (a or b).

The usual topics in the theory of equations, the solution of higher equations, exponential equations, logarithmic equations, and determinants. Dickson, First Course in Theory of Equations.

Mr. Mumford.

### Courses for Graduates Only

# Math. 501. Applied Mathematics I.

3-0-0

Elective for graduate students only. Prerequisite: Math. 413 or the consent of the instructor.

The course will be arranged to fit the engineering interests of the students enrolled.

Catenary cables, straight and curved beam problems, theory of curve fitting, probability and applications, problems in the theory of elasticity, ballistics, vibration theory and problems, electrical circuits, Heaviside operational calculus and applications to electrical engineering and to other engineering problems, calculus of finite differences and applications. Lecture notes.

Mr. Cell.

# Math. 502. Applied Mathematics II.

0 - 3 - 0

Elective. For graduate students only. Prerequisite: Math. 501.

A continuation of Math. 401. Lecture notes.

Mr. Cell.

### Math. 503. Applied Mathematics III.

0 - 0 - 3

Elective. For graduate students only. Prerequisite: Math. 502.

A continuation of Math. 402. Lecture notes.

Mr. Cell.

#### MECHANICAL ENGINEERING

### Courses for Undergraduates

# M. E. 101, 102, 103. Engineering Drawing I.

2 - 2 - 2

Required of freshmen in Textiles.

Drawing-board work covering lettering, projections, sections, pictorial drawings, working drawings as related to textile machinery, tracing, and blueprinting. Mimeographed notes and references. French and Turnbull, Lessons in Lettering. Messrs. Briggs, Brown, Adams, Moose, and Nash.

# M. E. 105, 106. Engineering Drawing II.

3-3-0

Required of freshmen in Engineering, Agricultural Engineering, Teachers of Industrial Arts, and Landscape Architecture.

Drawing-board work covering lettering, projections, sections, revolution, pictorial drawings, intersection, development, working drawings, tracing, and blueprinting. French, Engineering Drawing.

Messrs. Briggs, Brown, Sanford, Moose, Nash, and Adams.

# M. E. 107. Descriptive Geometry.

0-0-3

Required of freshmen in Engineering, Agricultural Engineering, Teachers of Industrial Arts, and Landscape Architecture. Prerequisite: M. E. 105, 106,

Representation of geometrical magnitudes by means of points, lines, planes, and solids, and the solutions of problems. Warner, Applied Descrip-Messrs. Briggs, Brown, Adams, Moose, and Nash. tive Geometry.

#### M. E. 121. Woodwork.

1 or 1 or 1

Required of sophomores in Chemical Engineering and freshmen in Textiles, and juniors in Farm Bus. Adm.

Use of bench tools, making cabinet joints, operation and care of woodworking machinery. Correct methods of staining, varnishing, filling, and Mr. Rowland. gluing various kinds of wood.

#### M. E. 122. Foundry.

1 or 1 or 1

Required of sophomores in Chemical Engineering and freshmen in Textiles, and juniors in Farm Bus. Adm.

Demonstration, instruction, and practice in molding and core making. Cupela practice. Stimpson, Grey and Grennan, Foundry Work. Mr. Maddison.

### M. E. 123. Forge Work.

1 or 1 or 1

Required of sophomores in Chemical Engineering and Freshmen in Textiles.

A study of the origin, purification, and fabrication of the ferrous metals. Various metals are identified and studied in relation to their industrial uses. Manipulative work in actual forging of mild steel is emphasized. Coleman, Forge Note Book.

Mr. Cope.

### M. E. 124. Patternmaking.

2 or 2 or 2

Required of sophomores in Mechanical Engineering and in Industrial Engineering.

Deals with elementary joinery, finishing, theory of dry-kilning, wood-turning. Lectures, demonstrations, and practice in hand work and machine methods. Typical patterns and core boxes are constructed such as solid, split, and loose piece. Turner and Town, Pattern Making. Mr. Rowland.

### M. E. 125. Foundry Practice.

2 or 2 or 2

Required of sophomores in Industrial and Mechanical Engineering.

Lectures, demonstrations, and practice in molding and core making, cupola operations, melting and casting of ferrous and non-ferrous metals and their alloys. Instructions and practice in the testing of molding sands. Wendt, Foundry Work.

Mr. Maddison.

#### M. E. 126. Forging and Welding.

2 or 2 or 2

Required of sophomores in Industrial and Mechanical Engineering.

A study of the principles and practices in the forging of mild steel. Hand forging is correlated with the industrial processes of hammering, rolling, and pressing. Lectures, demonstrations and practice in forge, oxy-acetylene, and electric welding are given. Johnson, Forging Practice.

Mr. Cope.

#### M. E. 127. Woodworking.

0-3-0

Required of juniors in Architectural Engineering.

Includes elementary joinery, cabinet joints, reading blueprints, and wood-turning. Theory of dry-kilning and wood finishing. Lectures, demonstrations, and practice in hand and machine methods.

Mr. Rowland.

## M. E. 128. Forge and Welding Practice.

3 or 0 or 3

Required of sophomores in Electrical Engineering.

A study of the principles and practices in connection with the forging of mild and tool steels. Identification of ferrous metals is covered. Actual practice in hand forging of pieces of mild and tool steel is stressed. Hand forging is correlated with the industrial processes of hammering, rolling, and pressing. Practice is given in forge and electric welding with emphasis on oxyacetylene welding. Johnson, Forging Practice.

Mr. Cope.

M. E. 211, 212, 213. Mechanical Drawing.

2-2-2 or 0-2-2

Six (6) credits required of sophomores in Mechanical Engineering, juniors in Teachers of Industrial Ed. and four (4) credits required of juniors in Ceramic Engineering. Prerequisite: M. E. 105-6, M. E. 107.

Drawing-board work covering machine fastenings, pipe fittings, cam design, technical sketching, applied descriptive geometry, and working drawings; tracing and blueprinting. French, Engineering Drawing.

Messrs. Briggs, Fornes, Satterfield, and Sanford.

## M. E. 215, 216, 217. Elementary Mechanism.

1-1-1

Required of juniors in Electrical Engineering.

Prerequisite: M. E. 105, 6, 7.

The study of linkages, cams, gears, belting, gear trains and other simple mechanisms; design and drawings of simple machine parts. Keown and Faires, Mechanism.

Mr. Hoefer.

## M. E. 221, 222, 223. Metallurgy.

2-2-2

Required of sophomores in Mechanical Engineering. Prerequisite: Chem. 101-2-3.

The study of metals and alloys; smelting, refining, shaping, and heat treating. Crystallography of metals, their properties and commercial applications. Stoughton and Butts, Engineering Metallurgy. Mr. Selkinghaus.

## M. E. 224. Factory Equipment.

0-0-3

Required of Juniors in Industrial Engineering.

Prerequisite: M. E. 124, 25, 26.

To summarize and coordinate all previous shop courses and show their relation to manufacturing processes. The essential principles of machine tool operation will be covered; also machine tool selection and application for economic production. Roe and Lytle, Factory Equipment.

Mr. Wheeler.

## M. E. 225, 226. Machine Shop I.

1-1-0

Required of juniors in Chemical Engineering. Prerequisite: M. E. 121-22-23.

Instruction is given in chipping, filing, scraping, and babbitting. General machine work, including straight and taper turning, drilling, shaper work, and gear cutting.

Mr. Wheeler.

## M. E. 227, 228, 229. Machine Shop II.

1-1-1

Required of juniors in Industrial and Mechanical Engineering and Yarn Manufacturing. Prerequisite: M. E. 121-22-23, or M. E. 124-25-26.

Given by lectures and demonstrations. Includes laying out work, grinding tools, chipping, drilling, tapping, babbitting bearings and scraping. Machine work, including centering, straight and taper turning, chucking, screw cutting, shaper work, planer work and index milling, and gear cutting. Turner, Machine Tool Work.

Mr. Wheeler.

### M. E. 235, 236. Metal Shop.

3-3-0

Required in Industrial Arts. Prerequisite: Ed. 106.

Use of hand and machine tools in problems for Secondary Schools. Kaup, Machine Shop Practice.

Mr. Wheeler.

## M. E. 241, 242, 243. Oxy-Acetylene and Electric Welding.

1-1-1

Elective for Senior Mechanical and Electrical Engineers.

Prerequisite: M. E. 126 or M. E. 128.

This course is designed to cover the fundamental methods and principles of fusion welding. Welding symbols, economic and metallurgical considerations, selection of method and type of welding and other practical aspects will be studied. Most of the practical work will deal with oxy-acetylene welding and cutting, with some work in electric welding. Plumley, Oxy-Acetylene Welding and Cutting.

Mr. Cope.

#### M. E. 251, 252. General Aeronautics.

3-3-0

Elective. Prerequisite: Math. 101-2-3.

Ground-School course for those students wishing to receive flight training under Civil Aeronautics Authority program. The scope of the course embraces Civil Air Regulations, Navigation, and Meteorology as required for a pilot's certificate. Lusk: General Aeronautics.

Mr. Parkinson.

## M. E. 301, 302. Heat Engineering I.

3-3-0

Required of seniors in Chemical Engineering.

Prerequisite: Phys. 201-2-3, Math. 303, M. E. 105-6.

Nature and measurement of heat, work, and power. Study of fuels and combustion, steam and steam boilers, and boiler-room auxiliaries. Elementary thermodynamics of steam and gas engine. Severns & Degler, Heat Engineering.

Mr. Groseclose.

## M. E. 303. Heat Engineering II.

Required of juniors in Civil, Geological, and Highway Engineering.

Prerequisite: Phys. 201-2-3, Math. 101-2-3.

Nature and measurement of heat, work, and power. Study of fuels and combustion, steam and steam boilers, and boiler-room auxiliaries. Potter & Calderwood, *Elements of Steam and Gas-Power Engineering*.

Mr. Groseclose.

### M. E. 305, 306. Engineering Thermodynamics I.

3-3-0

0 - 0 - 3

Required of juniors in Ceramic Engineering.

Prerequisite: Phys. 201, 2, 3, Math. 303.

Nature and measurement of heat, work and power. Study of fuels and combustion, heat transfer and insulation. Elementary thermodynamics of gas and vapor cycles. Taft, *Elementary Engineering Thermodynamics*.

Mr. Selkinghaus.

## M. E. 307, 308, 309. Engineering Thermodynamics II.

3-3-3

Required of juniors in E. E., M. E., and I. E.

Prerequisite: Phys. 201, 2, 3, Math. 303.

The study of heat as an engineering medium, including combustion, heat transfer, and the laws governing energy transformations; use of the general energy equation in the solution of problems dealing with gases, vapors, and mixtures; application of the principles studied to the design and performance of nozzles, steam engines and turbines, internal combustion engines, refrigerating machines, and air compressors. Faires, Applied Thermodynamics.

Messrs. Hoefer, Rice, Satterfield, Vaughan.

## M. E. 311, 312. Mechanical Engineering Laboratory I.

1-1-0

Required of juniors in Cer. Engineering. Concurrent with M. E. 305, 306. Calibration of thermometers and gauges, use of planimeters and indicators; coal and gas analyses; tests of lubricating oils. Testing of steam engines, turbines, and pumps. Rice, Mechanical Engineering Laboratory.

Messrs. Bridges, Rice, and Selkinghaus.

## M. E. 313-314-315. Mechanical Engineering Laboratory II.

1-1-1

Required of juniors in Electrical, Industrial and Mechanical Engineering. Concurrent with M. E. 307, 8, 9.

Calibrating pressure, temperature, speed, and power-measuring instruments; the study of steam generating equipment; the testing of fuels, lubricants, pumps, compressors, steam engines and turbines, heating and ventilating equipment, hydraulic machinery, and internal combustion engines. Rice, Mechanical Engineering Laboratory.

Messrs. Bridges, Rice, Sanford, Selkinghaus.

## M. E. 317, 318, 319. Kinematics.

3-3-3

Required of juniors in Mechanical Engineering. Prerequisite: M. E. 211-12-13.

A study of the science of the motion of machine parts, or the geometry of machinery, with emphasis on belts, pulleys, cams, gears, chain drives, shafts, and links. Schwamb, Merrill, and James, Elements of Mechanism.

Mr. Fornes.

# M. E. 323. Introduction to Aeronautics.

0-0-3

Required of juniors in M. E., Aeronautical Option. Prerequisite: Phys. 201-2-3.

A study of the airplane and simple aerodynamics. Carter, Simple Aerodynamics and the Airplane.

Mr. Parkinson.

# M. E. 341, 342, 343. Furniture Designs and Rod-making.

3-3-3

Required of juniors in M. E. (Furniture Option). Prerequisite: M. E. 124-25-26 and M. E. 211-12-13.

Principles of elementary freehand design. Methods of dry-kilning, finishing, filling and staining, and rod-making. Dean, Modern American Period Furniture.

Mr. Wheeler.

# M. E. 350. Advanced Engineering Drawing.

0-3 or 3

Elective: For Advanced Undergraduates.

Prerequisites: M. E. 105, 6, 7 and E. M. 311, 12 or M. E. 101, 2, 3 and one of the following: Tex. 304, 310, 335, 381.

Drawing board work covering advanced drafting problems as related to plant machinery, equipment, schematic drawing, organization charts, and special problems in the various engineering and textile fields. The course will include laboratory work, lectures, recitations and individual conferences.

Mimeographed problem sheets, handbooks and reference material will be used.

Messrs. Briggs, Moose and Brown.

# M. E. 352, 353. Advanced General Aeronautics.

0-3-3

Elective. Prerequisite: M. E. 251, 252.

Ground school course for those students wishing to receive advanced flight training under the Civil Aeronautics Authority Program. The scope of the course embraces Navigation, Meteorology, Parachutes, Aerodynamics and Aircraft, Engines, Instruments, and Radio, Navigation Aids as required for a Limited Commercial Pilot's Certificate. Lecturer's Notes. Mr. Parkinson.

## Courses for Graduates and Advanced Undergraduates

## M. E. 401, 402, 403. Power Plants.

3-3-3

Required of seniors in Mechanical Engineering. Prerequisite: M. E. 307-8-9 and M. E. 313-14-15.

A critical study of fuels and combustion, heat balance, steam boilers, prime movers and auxiliaries as applied to power generation. Morse, *Power Plant Engineering and Design*.

Mr. Vaughan.

## M. E. 404. Heating and Air-Conditioning I.

0-3-0

Required of seniors in Mechanical Engineering I. Prerequisite: M. E. 307-8-9.

Principles of heating and ventilation. Hot air, steam, and hot water heating systems; air conditioning. Severns, *Heating*, *Ventilating*, and *Air Conditioning Fundamentals*.

Mr. Vaughan.

### M. E. 405. Refrigeration.

0-0-3

Required of seniors in Mechanical Engineering. Prerequisite: M. E. 307-8-9.

Theory of refrigeration; types of ice-making and refrigerating machinery. Special emphasis upon cooling for air conditioning. Installation, management, and cost of operation. Sparks, *Mechanical Refrigeration*.

Mr. Vaughan.

#### M. E. 407, 408, 409. Mechanical Engineering Laboratory III.

1-1-1

Required of senoirs in Mechanical Engineering. Prerequisite: M. E. 313-14-15.

Advanced study and testing in the fields of power plants, air-cooled and liquid-cooled internal combustion engines, heating and ventilation, metallurgy, fluid flow, compressed air, fuels and combustion, and lubrication. Rice, Mechanical Engineering Laboratory. Messrs. Bridges, Rice, Selkinghaus.

## M. E. 411, 412, 413. Machine Design.

3-3-3

Required of seniors in Mechanical Engineering. Prerequisite: M. E. 317-18-19, E. M. 213, E. M. 222.

Application of mechanics, kinematics, strength of materials, and metallurgy to the design of machinery. Determination of proper materials, shape, size, strength, motion, and relationship of various machine parts. Vallance, Design of Machine Members.

Mr. Fornes.

## M. E. 417, 418, 419. Aerodynamics.

Required of seniors taking Aeronautical Option in Mechanical Engineering. Prerequisite: Math. 303 and M. E. 323.

A study of forces affecting the airplane under the various conditions of flight. Wood, Technical Aerodynamics.

Mr. Parkinson.

## M. E. 421, 422, 423. Aircraft Engines.

3-3-3

Required of seniors taking Aeronautical Option in Mechanical Engineering. Prerequisite: M. E. 307-08-09.

Thermal and mechanical characterictic of high-speed internal combustion engines; their operation, performance, and design. Lichty, *Internal Combustion Engines*. Mr. Rice.

## M. E. 425, 426, 427. Airplane Design.

3-3-3

Required of seniors taking Aeronautical Option in Mechanical Engineering. Prerequisite: E. M. 213, 222, C. E. 321 and M. E. 323.

A study of the design and construction of aircraft. Teichmann, Airplane Design Manual.

Mr. Sanford.

## M. E. 431, 432, 433. Aeronautical Laboratory.

1-1-1

Required of seniors taking Aeronautical Option in Mechanical Engineering. Prerequisite: M. E. 313-14-15.

Advanced study and testing in the field of air-cooled and liquid-cooled internal combustion engines and their auxiliaries. Wind tunnel tests on air foils and models; tests of wings and structural members; tests of fuels and lubricants, and tests in applied metallurgy. Rice, Mechanical Engineering Laboratory.

Messrs. Rice and Sanford.

#### M. E. 441. Aircraft Instruments and Avigation.

3-0-0

Prerequisite: M. E. 323.

This course deals with the instruments used in aircraft engine operation, flight indication, and in avigation. The uses, principle of operation, and calibration is studied in detail. The fundamentals of avigation include problems in avigation such as course plotting, radius of action from fixed and moving bases and interception. Lecturer's Notes.

Mr. Parkinson.

## M. E. 442. Air Transportation.

0-3-0

Prerequisite: M. E. 323.

The various phases of air transportation and airline operation are studied in this course. This includes a brief survey of existing conditions, factors governing development, methods of large scale aircraft operation, personnel organization and aviation law. Lecturer's Notes.

Mr. Parkinson.

3-3-8

M. E. 443. Aircraft Propeller Design.

0-0-3

Prerequisite: M. E. 323.

The various theories are discussed in this design course. This embraces effect of blade shape, tip speed, and gearing on propeller performance. The various types of propellers are studied in detail. Weick, Aircraft Propeller Design.

Mr. Parkinson.

M. E. 445, 446, 447. Furniture Design and Construction.

3-4-5

Required of seniors in Mechanical Engineering III. Prerequisite: M. E. 341-42-43.

Theory and practice in construction and finishing. Factory processes and layout for quantity production. Dean, *Modern American Period Furniture*.

Mr. Wheeler.

M. E. 451-452-453. Heating and Air Conditioning II.

3-3-3

Required of seniors in Mechanical Engineering IV.

Prerequisite: M. E. 307-8-9 and M. E. 313-14-15.

Principles of heating, ventilation and refrigeration as applied to air conditioning. Study of design and operation of air conditioning systems. Allen and Walker, *Heating and Air Conditioning*. Messrs. Rice and Vaughan.

M. E. 455, 456, 457. Heating and Air Conditioning Lab.

1-1-1

Required of seniors in Mechanical Engineering IV.

Prerequisite: M. E. 313-314-315.

The work consists of the study and testing of heating and air-conditioning units, systems and controls. The testing of refrigerating equipment, ducts, methods of air distribution, fuel burning equipment, dust control equipment and heat resisting materials. American Society of Heating and Ventilating Engineers Guide.

Mr. Rice.

M. E. 458, 459. Heating and Air Conditioning Design.

0 - 3 - 3

Required of seniors in Mechanical Engineering IV.

Prerequisite: M. E. 307-8-9 and M. E. 313-4-5.

Design calculations are made from given conditions for a heating plant and an air conditioning system, materials listed and cost of installation estimated. American Society of Heating and Ventilating Engineers Guide.

Messrs. Rice and Vaughan.

## M. E. 461, 462, 463. Experimental Engineering.

3-3-3

Prerequisite: M. E. 313-14-15 or equivalent as approved by faculty group.

A course in advanced engineering principles applied to a specific project dealing with heat power, hydraulic machinery, metallography, aerodynamics, or general experimental work. A seminar period is provided and a written report required.

Messrs. Rice, Vaughan and Wheeler.

### Courses for Graduates Only

### M. E. 501, 502, 503. Advanced Engineering Thermodynamics.

3-3-3

Prerequisite: M. E. 307-8-9 and M. E. 407-8-9.

A further development of the thermodynamic equations and their application to advanced engineering problems.

Mr. Hoefer, Mr. Rice.

### M. E. 505, 506, 507. Internal Combustion Engine Design.

3-3-3

Prerequisite: M. E. 421-22-23 and 407-8-9.

A thorough study of the field of Internal Combustion Engines together with the design of an engine to meet specific requirements. Pye: Internal Combustion Engines Vol. I and II.

Mr. Rice.

### \*M. E. 513, 514, 515. Power Plant Design.

3-3-3

Prerequisites: M. E. 401-2-3 and M. E. 307-8-9.

The design of a plant to fulfill conditions obtained by investigation and research; specifications for design and installation.

Mr. Hoefer, Mr. Vaughan.

## \*M. E. 517, 518, 519. Design of Heating and Ventilating System.

3-3-3

Prerequisites: M. E. 404 and M. E. 407-8-9.

The study and the design of a heating system for specific conditions; specifications for installation and performance tests of heating equipment.

Mr. Rice, Mr. Vaughan.

## M. E. 521, 522, 523. Mechanical Engineering Research.

3-3-3

Prerequisites: M. E. 401-2-3 and M. E. 404.

Research and thesis in connection with M. E. 513-14-15 or M. E. 517-18-19, or M. E. 505, 6, 7.

Mr. Rice, Mr. Vaughan.

<sup>\*</sup> Only one of these courses to be offered during any College year.

M. E. 525, 526, 527. Advanced Aerodynamics.

3-3-3

Prerequisites: M. E. 417-18-19.

Wind-tunnel research. First term: a study of tests performed. Second term; a series of experiments. Third term: the compilation and interpretation of the results.

Mr. Parkinson.

M. E. 531, 532, 533. Aerodynamic Research.

3-3-3

Prerequisites: M. E. 431-32-33.

Research and thesis in connection with M. E. 411-12-13. Mr. Parkinson.

## MILITARY SCIENCE AND TACTICS

Mil. 101, 102, 103. Military Science I.

2-2-2

This, the first-year basic course, is required of all physically fit freshmen.

The National Defense Act and the R. O. T. C., Military Courtesy and Discipline, Military Hygiene and First Aid, Leadership, Rifle Marksmanship, Map Reading, Military Organization, Current International Situation, Military History and Policy, and Obligations of Citizenship.

Mil. 201, 202, 203. Military Science II.

2-2-2

This, the second-year basic course, is required of all physically fit sophomores who have completed Military Science 101.

Leadership, Musketry, Automatic Rifle, Scouting and Patrolling, Combat Principles of the Rifle Squad and Platoon; Interior Guard Duty and Military History.

Mil. 301, 302, 303. Military Science III.

3-3-3

Prerequisite: Ms. II.

This, the first-year advanced course, is elective for selected juniors.

Aerial Photograph Reading, Leadership, Machine Gun, 37 MM. Gun, Three-inch Trench Mortar, Combat Principles, Supply and Mess Management, Field Fortifications, Care and Operation of Motor Vehicles, and Defense Against Chemical Warfare.

Mil. 401, 402, 403. Military Science IV.

3-3-3

This, the second year advanced course, is required of all seniors who have completed the first-year advanced course. Prerequisite: Ms. III.

Military Law, Officers Reserve Corps Regulations, Military History and Policy, Anti-Aircraft Defense, Leadership, Combat Principles of the Rifle

Company, Heavy Weapons Company, Tanks and Mechanization, Combat Intelligence, and Signal Communications.

Full credit will be given for work at other institutions maintaining a Senior unit of the Reserve Officers Training Corps as shown by the students' record, Form 131 A. G. O., kept by the Professor of Military Science and Tactics.

## MODERN LANGUAGES

#### Basic Courses

#### French

## \*M. L. 101, 102. Elementary French.

3-3-0

This course consists of a series of lectures on the structure, diction, pronunciation, and other matters of technique of the French language, supplemented by easy readings and translations. No previous training in the language is necessary. Individual reports and conferences are required.

Mr. Ballenger, Mr. Garodnick.

## \*M. L. 201. Elementary French Prose.

0-0-3

Prerequisite: M. L. 101-102 or Equivalent.

This course consists of reading and translation of easy French, lectures on the structure of the French language, diction, and pronunciation. The work is conducted in such manner that the student's choice in reading material is a matter of individual need. Individual reports and conferences are required.

Mr. Ballenger.

## M. L. 202. Intermediate French Prose.

3-0-0

Prerequisite: M. L. 201 or Equivalent.

This course is based upon a study of prose reading material which is largely historical in nature. Attention is given to the acquisition and extension of the student's basic vocabulary. Individual translation, parallel readings, and reports are required.

Mr. Ballenger.

#### German

# M. L. 103, 104. Elementary German.

3-3-0

This course consists of a series of lectures on the structure and technique of the German language, supplemented by a series of easy readings and translations. No previous training in the language is necessary. Individual reports and conferences are required.

Mr. Hinkle, Mr. Garodnick.

<sup>\*</sup> Two years of high-school work will ordinarily be considered the equivalent of M. L. 101-102, and 201; and of 103, 104, and 203.

## \*M. L. 203. Elementary German Prose.

0-0-3

Prerequisite: M. L. 103-104 or Equivalent.

This course consists of reading and translation of easy German, supplemented with lectures on the structure and idiom of the German language. The work is conducted in such a manner that the student's choice of reading material is a matter of individual need. Individual reports and conferences are required.

Mr. Hinkle.

#### M. L. 204. Intermediate German Prose.

3-0-0

Prerequisite: M. L. 203 or Equivalent. (1)

This course is based upon a study of prose reading material which is largely historical in nature. Attention is given to the acquisition and extension of the student's basic vocabulary. Individual translations, parallel readings, and reports are required.

Mr. Hinkle.

### Spanish

## \*M. L. 105-106. Elementary Spanish.

3-3-0

This course consists of a series of lectures on the structure, diction, pronunciation, and other matters of technique of the Spanish language, supplemented by easy readings, and translations. No previous training in the language is necessary. Individual reports and conferences are required.

Mr. Ballenger, Mr. Garodnick.

#### \*M. L. 205. Elementary Spanish Prose.

0 - 0 - 3

Prerequisite: M. L. 105-106 or Equivalent.

This course consists of reading and translation of easy Spanish, lectures on the structure of the language, diction and pronunciation. The work is conducted in such a way that the student's choice of reading material is a matter of individual need. Individual reports and conferences are required.

Mr. Ballenger.

## M. L. 206. Intermediate Spanish Prose.

3-0-0

Prerequisite: M. L. 205 or Equivalent.

This course is based upon a study of prose reading material which is largely historical in nature. Attention is given to the acquisition and extension of the student's basic vocabulary. Individual translations, parallel readings, and reports are required.

Mr. Ballenger.

<sup>&</sup>lt;sup>2</sup> Two years of high-school work will ordinarily be considered the equivalent of M. L. 105, 106, and 205.

#### \* Technical or Scientific Courses

#### M. L. 301. Technical French.

0-3-0

Prerequisite: M. L. 202 or Equivalent.

This course consists of a series of readings and translations of relatively simple technical French, supplemented by lectures on technical terminology, vocabulary analysis, and other matters of linguistic technique. The work is designed to meet the needs of students whose interest in the language is primarily that of the acquisition of a reading ability. Since the choice of reading material is adjusted to individual needs, it may be taken by students of varying degrees of previous linguistic training.

Mr. Ballenger.

### M. L. 302. Introductory Scientific French.

0 - 0 - 3

Prerequisite: M. L. 202 or Equivalent.

This course is based upon a study of scientific French of intermediate difficulty, supplemented with lectures on scientific terminology and other matters of linguistic technique. The needs of students whose interest is that of the acquisition of a reading knowledge of the language is constantly kept in view. The basic techniques of translation are explained and demonstrated by means of personal conferences. Mr. Ballenger, Mr. Garodnick.

#### M. L. 401, 402, 403. Advanced Scientific French.

3-3-3

Prerequisite: M. L. 301, or 302, or equivalent.

This course is based upon a study of French scientific literature appearing in current bulletins, magazines and technical journals. Students are given the opportunity of working a translation project in connection with their subject of major interest. Special attention is given to the comprehension of the thought of the article under consideration and its accurate rendition into English. Parallel readings, reports, and conferences are required.

Mr. Hinkle, Mr. Ballenger.

#### M. L. 303. Technical German.

0-3-0

Prerequisite: M. L. 204, or Equivalent.

This course consists of a series of readings and translations of relatively simple technical German, supplemented by lectures on technical terminology, word order, vocabulary analysis and other matters of linguistic technique. The work is designed to meet the needs of students whose interest in the language is primarily that of the acquisition of a reading ability. Since the choice of reading material is adjusted to individual needs, it may be taken by students of varying degrees of previous linguistic training.

Mr. Hinkle.

<sup>\*</sup>Students registered in advanced technical and scientific courses are given the opportunity of doing a translation project in connection with the Translation Service of the department. When such project is satisfactorily completed and accepted, it may be substituted in lieu of an examination as evidence of reading ability. This procedure is recommended as the preferable method of preparation for the acquisition of a reading knowledge of the language concerned.

## M. L. 304. Introductory Scientific German.

0-0-3

This course is based upon a study of scientific German of intermediate difficulty supplement with lectures on scientific terminology and other matters of linguistic technique. The needs of students whose interest is that of the acquisition of a reading knowledge of the language is constantly kept in view. The basic techniques of translation are explained and demonstrated by means of personal conferences.

Mr. Hinkle, Mr. Garodnick.

### M. L. 404, 405, 406. Advanced Scientific German.

3-3-3

Prerequisite: M. L. 303, or 304, or Equivalent.

This course is based upon a study of German scientific literature appearing in current bulletins, magazines, and technical journals. Students are given the opportunity of working a translation project in connection with their subject of major interest. Special attention is given to the comprehension of the thought of the article under consideration and its accurate rendition into English. Parallel readings, reports, and conferences are required.

Mr. Hinkle, Mr. Garodnick.

### M. L. 305. Technical and Industrial Spanish.

0 - 3 - 0

Prerequisite: M. L. 206, or Equivalent.

This course consists of a study of technical and industrial literature. Particular attention is given to the special terminology characteristic of such literature with a view to the acquisition of a practical vocabulary. Individual conferences and reports are required.

Mr. Ballenger.

## M. L. 306. Introductory Scientific Spanish.

0 - 0 - 3

Prerequisite: M. L. 206, or Equivalent.

This course consists of a series of readings and translations of relatively simple scientific Spanish, supplemented by lectures on scientific terminology, vocabulary analysis, and other matters of linguistic technique. The work is designed to meet the needs of students whose interest in the language is primarily that of the acquisition of a reading ability. Since the choice of reading material is adjusted to individual needs, it may be taken by students of varying degrees of previous linguistic training.

Mr. Ballenger.

## M. L. 407, 408, 409. Advanced Scientific Spanish.

3-3-3

Prerequisite: M. L. 305, or 306, or Equivalent.

This course is based upon a study of Spanish scientific literature appearing in current bulletins, magazines, and technical journals. Students are given the opportunity of working a translation project in connection with their subject of major interest. Special attention is given to the compre-

hension of the thought of the article under consideration and its accurate rendition into English. Parallel readings, reports, and conferences are required.

Mr. Ballenger, Mr. Garodnick.

#### General Courses

### M. L. 410. Masterpieces of French Literature.

3-0-0

Prerequisite: Junior or Senior Standing.

This course consists of a study of outstanding masterpieces of French literature. It is conducted in such a manner as to give a brief outline of French literary development. Parallel reading may be done either in translation or in French. An open elective. No language prerequisites.

Mr. Hinkle.

### M. L. 411. Masterpieces of German Literature.

0-3-0

Prerequisite: Junior or Senior Standing.

This course consists of a study of outstanding masterpieces of German literature. It is conducted in such a manner as to give a brief outline of German literary development. Parallel readings may be done either in translation or in German. An open elective. No language prerequisites.

Mr. Hinkle.

## M. L. 412. Masterpieces of Spanish Literature.

0-0-3

Prerequisite: Junior or Senior Standing.

This course consists of a study of outstanding masterpieces of Spanish literature. It is conducted in such a manner as to give a brief outline of Spanish literary development. Parallel readings may be done either in translation or in Spanish. An open elective. No language prerequisites. Mr. Hinkle.

# M. L. 413. French, German and Spanish Civilization.

3-0-0

Prerequisite: Junior or Senior Standing.

This is a course dealing with the development of French, German, and Spanish civilizations. The reading material is supplemented by lectures and reports on the manners and customs of the respective culture under consideration. Topics, such as racial stocks, people, social classes, governments, politics and education are given special consideration. Parallel readings, reports, and conferences are required. An open elective. No language prerequisites.

Mr. Hinkle.

## M. L. 414. The Development of Language.

Prerequisite: Junior or Senior Standing.

This is a course covering the various phases of linguistic growth, with the object of providing a basis for intelligent language appreciation. Problems as to the origin of language, linguistic change, grammatical categories, dialects, standard language, word order, inflection, isolation, agglutination, etymology, and other linguistic processes are given special consideration. Parallel readings, reports, and conferences are required. An open elective. No language prerequisites.

Mr. Hinkle.

## M. L. 415. Masterpieces of Foreign Literature.

0-0-3

Prerequisite: Junior or Senior Standing.

This course consists of a study of outstanding literary productions in each of the various types of literature, and lectures on the cultural background out of which they have developed. It is designed primarily to meet the needs of students who wish to supplement their knowledge of their own literature with a survey of similar contributions in the literature of other civilizations. Special attention is given to the literary monuments of France, Germany, Spain, and Italy. Since the material studied is done in translation, no foreign language prerequisites are necessary. Daily reports and conferences are required.

Mr. Hinkle.

#### PHYSICAL EDUCATION AND ATHLETICS

#### Courses and Activities

#### P. E. 101, 102, 103. Fundamental Activities and Hygiene.

1-1-1

Required of all freshmen except those excused on the recommendation of the college physician.

Individual health and physical efficiency of each student based on standardized athletic, gymnastic and efficiency tests. Lectures on personal hygiene required in one term only.

Mr. Miller and Staff.

#### P. E. 201, 202, 203. Sports Activities.

1-1-1

Required of all sophomores except those excused upon recommendation of college physician. Prerequisite: P. E. 101-2-3.

Election is permitted in popular sports for healthful exercise and a fair degree of skill in them.

Mr. Miller and Staff.

### P. E. 111, 112, 113. Restricted Activities.

1-1-1

Required of all freshmen excused from P. E. 101-2-3.

Special activities for those students who cannot meet the requirements of the regular course because of physical handicap. Mr. Miller and Staff.

#### P. E. 211, 212, 213. Restricted Activities.

1-1-1

Required of all sophomores excused from P. E. 201-2-3.

Special activities for those students who cannot meet the requirements of the regular course because of a physical handicap.

Mr. Miller and Staff.

### P. E. 301-302-303. Theory and Practice First Aid.

1 or 1 or 1

Elective to Juniors and Seniors.

Hours by arrangement.

This course is presented in ten 2 hr. periods. It covers anatomy and physiology sufficiently to proceed with bandages, dressings, wounds, shock, injuries to bones, joints, muscles, poisons, unconsciousness, artificial respiration and common emergencies. Students completing the course are awarded the American Red Cross Certificate.

Mr. Sermon, Mr. Winkler, Mr. Bartlett.

### P. E. 401. Social Recreation.

0-0-3

Elective to teachers of agriculture.

Prerequisite: Junior or Senior standing.

This course is especially prepared to meet the demands made of teachers of agriculture to assume leadership in social and recreational activities. The content of the course deals with the organization, supervision and practice work in athletic and social activities for parties, picnics, campus, banquets and similar occasions.

Mr. Miller.

#### PHYSICS

## Courses for Undergraduates

## Phys. 102. Physics Survey.

0 - 3 - 0

An introductory survey of physical phenomena, with the scientific method developed and conclusion drawn therefrom; designed for the enrichment of the student's thinking.

Mr. Heck.

### Phys. 105, 106, 107. General Physics.

4-4-4

A general survey of the phenomena, laws, and devices of modern physical science. Millikan, Gale, and Edwards, First Course in Physics for College.

Mr. Stainback, Mr. Bartlett.

## Phys. 111, 112, 113. Physics for Textile Students.

4-4-4

Required of freshmen in the Textile School. Prerequisite: Math. 100.

Industrial Physics, with emphasis on practical applications to textile industry. Black, College Physics, 2nd edition.

Messrs. Meares, Lancaster, Crouch.

### Phys. 115. Physics for Agricultural Students.

5 or 5 or 5

Required of sophomores in Agriculture.

Elements of machines, physics of heat and weather, and applications of light and electricity on the farm. Henderson, *The New Physics of Everyday Life*.

Mr. Heck, Mr. Stainback, Mr. Bartlett.

## Phys. 123. Descriptive Astronomy.

0-0-3

Elective.

The sun and planets, the stars and modern research in astronomy; observations with telescope. Baker, Introduction to Astronomy.... Mr. Heck.

### Phys. 201, 202, 203. Physics for Engineers.

4-4-4

Required of sophomores in Engineering. Prerequisite: Math. 102.

General Physics, with emphasis on problems in engineering applications, and the subjects of acoustics and light not otherwise appearing in the curriculum of most engineers. Smith, *Elements of Physics*.

Messrs. Heck, Derieux, Meares, Lancaster, Stainback, Bartlett, Crouch, Carroll.

## Phys. 205, 206, 207. Physics for General Engineering.

5-5-5

0-0-3

Required of sophomores in general engineering. Prerequisite: Math. 102.

Similar to Physics for Engineers but including broader development and more applications of the subject.

Mr. Bartlett, Mr. Carroll.

# Phys. 306. Electron Tubes and Their Application to Industry.

Elective. Prerequisite: Phys. 113 or 203. Math. 103.

Thermionic emission, various thermionic emitters, secondary emission, space charge, discharge in gases, photoelectricity, photoconductivity, and the photovoltaic effect. Laboratory substituted for lectures as needed. Koller, *Physics of Electron Tubes*.

Mr. Stainback.

## Phys. 311. Light in Industry.

3-0-0 or 0-0-3

Required for Textile students; elective for all other students. Prerequisite: Phys. 113 or equivalent.

Fundamentals of light, illumination and color; psychology of color; standardized color theory with principles applied to selection, mixing, matching, lighting, pigments, contrast, and harmony. Mr. Lancaster.

## Phys. 322. Meteorology.

0 - 3 - 0

Required of juniors in Forestry. Elective for other students.

Causes of weather change, methods of forecasting, and peculiarities of the weather of North Carolina. Blair, Weather Elements. Mr. Heck.

### Phys. 332. Photography.

0-3 or 3

Elective. Prerequisite: Phys. 113 or equivalent.

A general study of cameras and lenses; exposure, development, printing, emulsion, sensitivity, and filters. Mack and Martin, *The Photographic Process*.

Mr. Meares.

## Phys. 402, 403. Mechanics.

0-3-3 or 0-4-4

Elective. Prerequisite: Phys. 203, Math. 303.

The Physics principles of mechanics. Edser, Physics for Students.

Mr. Meares.

## Phys. 405, 406. Electricity and Magnetism.

3-3-0 or 4-4-0

Elective. Prerequisite: Phys. 203 and Math. 303.

Fundamental principles of the subject in a more specialized but intermediate manner. Laboratory, if taken, increases the course to 4 credits.

Gilbert, Electricity and Magnetism.

Mr. Lancaster.

## Phys. 407. Elementary Modern Physics.

3 or 3 or 3

Required of juniors in Electrical Engineering and of seniors in Ch. E. Prerequisites: Physics 203. Math. 303.

Evolution of the electron theory, constitution of matter, conduction in gases, conduction in non-metallic liquids, conduction in solids, radiation, photoelectric emission, thermionic emission, X-rays, radioactivity, cosmic rays, transmutation. Hull, Modern Physics.

Mr. Derieux.

### Phys. 413. Acoustics.

0 - 0 - 3

Elective. Prerequisites: Phys. 203. Math. 303.

Production, propagation, transmission, and reception of sound with special applications to architectural and electrical transmission problems. Watson, Sound.

Mr. Bartlett.

## Phys. 415, 416. Light.

0-3-3 or 0-4-4

Elective. Prerequisite: Phys. 203 or 207 and Math. 303.

Introduction to principles of geometrical and physical optics. Edser, Light for Students. Mr. Derieux.

### Phys. 417. Heat.

3-0-0

Elective. Prerequisites: Phys. 203 or 207 and Math. 303.

Methods of temperature measurement, specific heats, thermal expansion in solids, in liquids, and in gases, conduction, radiation, kinetic theory of gases, change of state, continuity of state, thermodynamics, low temperatures, high temperatures. Cork, *Heat*.

Mr. Bartlett.

## Phys. 421, 422, 423. Theoretical Mechanics.

3-3-3

Prerequisites: Phys. 203 and Math. 303.

Gyroscopic motion, spiral orbits, compound pendulum, bifilar suspensions, coupled systems, damped and forced oscillations, elasticity, surface tension, osmosis, motion of fluids, viscosity, and wave motion. Preston, *Mechanics of Particles and Rigid Bodies*.

Mr. Derieux.

## Phys. 426. Spectroscopy in Industry.

0-3-0 or 0-4-0

Prerequisites: Phys. 203 and Math. 303.

Elementary principles, spectroscopic equipment, spectra, spectrum analysis, quantitative spectroscopy, industrial applications of emission, spectrum analysis, spectrophotometry, absorption spectroscopy, application of absorption spectroscopy, concluding survey. Judd Lewis, Spectroscopy in Science and Industry.

Mr. Derieux.

## Phys. 427. Geometrical Optics.

3-0-0

Prerequisites: Phys. 203 and Math. 303.

Photometry, intrinsic energy, luminosity, curved mirrors, refraction through a prism, refraction at curved surface, thin lens, lenses in system of thick lenses, the eye and spectacles, dispersion, aberrations, resolving power, achromatic lenses, and optical instruments. Houston, A Treatise on Light.

Mr. Derieux.

## Phys. 428, 429. Physical Optics.

0-3-3

Prerequisites: Phys. 203 and Math. 303.

Velocity of light, composition of wave, velocity of wave transmission, wave theory of light, spectra, Doppler effect, absorption, anomalous dispersion, interference, interferometers, color photography, diffraction, and gratings, polarization, and saccharimetry. Houston, A Treatise on Light.

Mr. Derieux.

## Phys. 431, 432, 433. Modern Physics.

3-3-3

Elective. Prerequisites: Phys. 203 or 207 and Math. 301.

Alternating currents, electromagnetic radiation, moving charge, the electron, kinetic theory of gases, thermionics, photoelectric effect, X-rays, spectra, atomic structure, ionizing potential, radio and television, radioactivity, isotopes, geophysics, astrophysics, relativity, specific heats, high frequency sound, recent ideas. Ritchmeyer, *Modern Physics*.

Mr. Derieux.

### Phys. 438, 439. Experimental Optics.

0-2-2

Prerequisites: Phys. 203 and Math. 303.

Laboratory work with the photometer, spectrometer, gratings, Fresnel byprism and mirrors, polarimeter, saccharimeter, and interferometer. Mann, Manual of Optics.

Mr. Derieux.

## Phys. 443. History of Physics.

0-0-3

Elective. Prerequisite: One course in College Physics.

Development of Physics from its beginnings to the present time. Crew, Rise of Modern Physics.

Mr. Heck.

## Phys. 445, 446, 447. Research.

3-3-3

Elective. Prerequisite: Phys. 203 or 207 or 213.

Undergraduate research given according to the student's ability.

Mr. Heck.

#### Phys. 451, 452, 453. Physics Colloquium.

Current research reviewed by department and advanced students; meets weekly at night throughout the year.

Mr. Heck.

# Phys. 514, 515, 517. Advanced Theory of Electricity and Magnetism. 3-3-3

Prerequisites: Phys. 203 and Math. 301.

Theorem of Gauss, energy in media, boundary conditions, condensers, electrometers, dielectric constants, migration of ions, thermodynamics of reversible cells, thermo-electricity, galvanometers, magnetic circuits, growth and decay of currents, oscillatory discharge, and alternating currents. Starling, Advanced Theory of Electricity and Magnetism. Staff.

## Phys. 522. Discharge of Electricity in Gases.

0-3-0

Prerequisites: Phys. 213 and Math. 203.

Production of ions in gases, motion of ions, velocity in an electric field, diffusion, recombination, determination of atomic charge, ionization by collision, discharge tubes, cathode rays, positive rays, and X-rays. Crowther, Ions, Electrons, and Ionizing Radiations.

Mr. Derieux.

Phys. 525. Atomic Theory.

3-0-0

Elective. Prerequisite: Phys. 312.

Bohr's model, spectral formula, elliptical orbits, fine structure of spectral lines, Stark effect, Zeeman effect, Roentgen rays, Moseley's law, periodic system, isotopes, radioactivity, atomic nuclei, ionization, spectra and atomic structure, fluoroscence, atomic magnetism. White, Atomic Spectra. Staff.

Phys. 531, 532, 533. Research.

3-3-3

Open to all graduates. Every graduate student sufficiently prepared is expected to undertake research in some particular field of Physics. At least six hours a week must be devoted to such research.

Mr. Heck, Mr. Derieux.

#### POULTRY

## Courses for Undergraduates

## Poul. 201. General Poultry.

3-0-0

Required of sophomores in Agriculture.

Fundamental principles of poultry production.

Mr. Williams, Mr. Dearstyne.

## Poul. 301. Poultry Judging.

4-0-0

Required of juniors in Poultry Production, elective for others. Prerequisite: Poul. 201.

### Poul. 303. Incubation and Brooding.

0 - 0 - 3

Required of juniors in Poultry Production, elective for others.

Prerequisites: Phys. 115, Poul. 201.

Principles of incubation and brooding operation, feeding, housing, and rearing baby chicks.

Mr. Williams.

## Poul. 311, 312. Poultry Anatomy and Physiology.

3-3-0

Required of juniors in Poultry Science; elective for others. Prerequisite: Poul. 201, Zool. 202.

A foundation for courses in poultry diseases and nutrition. Mr. Cook.

# Poul. 322. Poultry Production.

0 - 4 - 0

Elective. Prerequisite: Poul. 201.

Developed for vocational teachers of agriculture. Poultry disease problems; nutritional problems; judging methods.

Mr. Dearstyne, Mr. Williams.

## Poul. 332. Preparation and Grading of Poultry Products.

0-3-0

Required of juniors in Poultry; elective for others. Prerequisite: Poul. 201.

Commercial fattening, grading and marketing eggs. Refrigerating and storage, markets.

Mr. Williams.

### Poul. 333. Poultry Nutrition.

0-0-4

Required of juniors in Poultry Production; elective for juniors in Agriculture. Prerequisites: Chem. 101, Zool. 101 and 102, Poul. 201.

Feeds and feeding: physiology of digestion, absorption, and elimination; mineral and vitamin requirements.

Mr. Dearstyne, Mr. Cook.

## Poul. 342. Turkey Production.

0-3-0

Required of seniors in Poultry Science, elective for others. Prerequisites: Poul. 101, Zool. 411.

Selection and mating of turkeys, incubation and brooding turkey poults, turkey nutrition, grading and marketing turkeys.

Mr. Nesbit.

## Courses for Advanced Undergraduates

## Poul. 401, 402. Poultry Diseases.

4-4-0

Required of seniors in Poultry Science, elective for others. Prerequisites: Poul. 201, Zool. 102, Poul. 401 prerequisite to Poul. 402.

Sanitation, parasite infestations and control, contagious and non-contagious diseases of the fowl.

Mr. Gauger.

## Poul. 403. Sero-Diagnosis in Poultry Diseases.

0-0-3

Required of seniors in Poultry Science. Prerequisites: Poul. 201, 401.

Basic immunological theory and technic. Antigen and serological tests.

Mr. Greaves.

## Poul. 412. Commercial Poultry Plant Management.

0 - 3 - 0

Required of seniors in Poultry Science, elective for others. Prerequisite: Poul. 201.

Development and maintenance of a commercial poultry plant, custom hatching, and commercial incubation; cost of production. Mr. Williams.

# Poul. 413. Selection and Mating of Poultry.

0-0-3

Required of seniors in Poultry Production; elective for juniors in Agriculture. Prerequisites: Poul. 201, Genetics, Zool. 411.

Methods of recognition and selection for mating from both standard and utility standpoints. Study of progeny performance.

Mr. Dearstyne.

### Poul, 423. Senior Seminar.

0-0-3

Required of seniors in Poultry.

Mr. Dearstyne.

### Courses for Graduates Only

## Poul. 501, 502, 503. Poultry Histology.

3-3-3

Prerequisites: 311, 312, 401, 402, Zool. 461.

General histology of the tissues and special histology of the various systems of the body.

Mr. Cook.

## Poul. 511, 512, 513. Poultry Pathology.

3-3-3

Prerequisites: 311, 312, 401, 501, 502, 503.

Various disease processes which may take place within the bird's body.

Mr. Cook.

## Poul. 521. Poultry Physiology.

3-0-0

Prerequisites: 311, 312, 401, 402, 501, 502.

This course accompanies histology and pathology to emphasize the effects of diseases on normal physiology.

Mr. Cook.

# Poul. 531, 532, 533. Poultry Research.

3-3-3

Prerequisite: Eighteen term credits in Poultry.

Problems in Poultry nutrition, diseases, marketing, and breeding may be undertaken. Such problems shall be conducted on a definitely outlined basis acceptable to the department.

Poultry Staff.

## Poul. 541, 542, 543. Seminar.

3-3-3

Prerequisite: Eighteen credit hours in Poultry. Mr. Dearstyne.

#### Poul. 551, 552, 553. Production Studies and Experiments.

3-3-3

Prerequisites: Poul. 201, 333, 401, 402.

Problems in Poultry nutrition, breeding, and commercial poultry production and marketing.

Mr. Dearstyne.

#### **PSYCHOLOGY**

## Psychol. 200. Introduction to Psychology.

3 or 3 or 3

A study of the general characteristics and development of human behavior, emphasizing the problems of motivation, emotion, learning, and thinking. Staff.

Psychol. 200-A. B. C. Introduction to Psychology Laboratory. 1-1-1 Mr. McGehee.

## Psychol. 290. Social Psychology.

0 - 3 - 0

Prerequisite: Psychology 200.

Social applications of Psychology; social stimulation, response, and attitudes. Mr. McGehee.

## Psychol. 291. Psychology of Personality.

0-0-3

Prerequisite: Psychology 200.

A study of the factors involved in the development of the normal personality. Mr. McGehee.

## Psychology 302. Applied Psychology.

0-3-0 or 0-0-3

Prerequisite: Psychology 200.

The practical application of psychological principles in special fields. Attention will be given to the analysis of problems arising in business, professional, and everyday life. Special reference to the psychological aspects of advertising, salesmanship and personnel selection. Mr. McGehee.

## Psychol. 303. Educational Psychology.

3-3-0

(For description of the course see Ed. 303) Mr.

### Psychol. 338. Industrial Psychology.

0-3-0 or 0-0-3

Prerequisite: Psychology 200.

The application of psychological principles to the problems of modern industry. The factors involved in the employment of men, as well as specific matters such as industrial learning, methods of work, monotony, fatigue, illumination, accidents, and the morale of workers will be considered.

## Psychol. 468. Measurements in Educational Psychology.

3-0-0

(For description of the course see Ed. 468.)

Mr. McGehee.

Psychol. 469. Psychological Techniques in Student Counseling. 3-0-0 (For description of course see Ed. 469) Mr. McGehee.

Psychol. S. and Ex. 471. Psychology of Exceptional Children.

3 credits

Psychol, 476. Psychology of Adolescence.

(For description of course see Ed. 476.)

0-0-3

Psychol. Ex. 477. Psychology of Secondary Education.

3 credits

Psychol. 490. Problems in Industrial Psychology.

0 - 3 - 3

Prerequisite: Twelve credits in Psychology and related fields.

Designed for students interested in a study of psychological aspects of industrial situations. Collateral reading and individual reports will characterize the course.

Staff.

Psychol. 503. Problems in Educational Psychology.

3-3-0

(For description of the course see Ed. 503.)

Mr. ....

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#### SOCIOLOGY

### Courses for Undergraduates

Soc. 101, 102, 103. Human Relations.

2-2-2

Required of students in the Schools of Agriculture and Textiles who do not take Military Science. Elective for others. Not open to upperclassmen.

An orientation course, designed to introduce the student to the social problems of our time. Staff.

Soc. 202. Introductory Sociology.

3-0-0 or 0-3-0 or 0-0-3

Required of students in Forestry; elective for others.

An introduction to the basic principles underlying social life and the factors connected with it. Identical with the first term of General Sociology.

Messrs. Winston and Mayo.

Soc. 202, 203. General Sociology.

3-3-0

An analysis of the fundamental factors affecting life in modern society. The second term of the course deals with practical social problems, using the tools developed in the first term.

Mr. Winston.

Soc. Ex. 210. General Anthropology.

3 credits

An introduction to the study of man; a consideration of his development from earliest forms to the present.

Mr. Winston.

### Courses for Graduates and Advanced Undergraduates

## Soc. Ex. 400. Criminology.

3 credits

Prerequisite: Soc. 202, supplemented by credits in related fields.

Causes and conditions leading to crime, methods of handling criminals, and various factors producing criminal behavior.

Mr. Winston.

#### Soc. 401. Social Pathology.

0 - 0 - 3

Prerequisite: Soc. 202, supplemented by credits in related fields.

Outstanding pathological problems reacting from social life; social and individual adjustments.

Mr. Winston.

### Soc. Ex. 402. Sociology of City Life.

3 credits

Elective. Prerequisite: Soc. 202, supplemented by credits in related fields.

Problems arising from growth of modern town and city life; city planning in regard to social and industrial progress.

Mr. Winston.

#### Soc. Ex. 403. Leadership.

3 credits

Prerequisite: Nine term credits in the Social Sciences, including Sociology 202.

A study of leadership in various fields of American life, together with the analysis of the various factors, inherent or acquired, that are associated with leadership, past and present.

Mr. Winston.

#### Soc. Ex. 404. Educational Sociology.

3 credits

Prerequisite: Nine term credits in the Social Sciences, including Sociology 202.

Application of the principles of Sociology to the practical problems of education with emphasis placed on the relationship between adjustment processes in the school and in the larger social world.

Mr. Winston.

## Soc. 406. The Family Organization.

3-0-0

Prerequisite: Soc. 202, supplemented by credits in related fields.

Premarital, marital, and family relationships; effects of present-day social changes; various efforts to stabilize the family. Mr. Winston.

### Soc. 407. Race Relations.

3-0-0

Elective. Prerequisite: Soc. 202, supplemented by credits in related fields. Race problems in America and in other countries; social, economic, and educational status of racial groups; international relationships.

Mr. Winston.

## Soc. Ex. 408. Social Anthropology.

3 credits

Prerequisite: Soc. 202 or Soc. 210, supplemented by credits in related fields.

Analysis of present-day culture, with particular reference to the United States and its regional variations.

Mr. Winston.

## Soc. 410. Industrial Sociology.

0-0-3

Prerequisite: Soc. 202, supplemented by credits in related fields.

Influence of industrial life; occupations as social and industrial factors; problems arising from our industrial era. Mr. Winston.

## Soc. 411. Population Problems.

0 - 3 - 0

Prerequisite: Soc. 202, supplemented by credits in related fields.

Analyses of outstanding problems connected with the growth and decline of populations in the United States; factors connected with birth and death rates; marriage rates; discussion of the changing quality of population groups.

Mr. Winston.

## Soc. 415. Research in Applied Sociology.

2-2-2

Prerequisite: Nine hours of Sociology, and permission of the instructor. Individual research problems in applied fields of sociology, such as problems of the family, of population, of social work; rural-urban relationships; student success; American leadership.

Mr. Winston.

#### SOILS

#### Courses for Undergraduates

## Soils 201. Soils.

4 or 4 or 4

Prerequisite: Geol. 120 and Chem. 101-2-3. Required of sophomores in Agriculture and Agricultural Chemistry, and of juniors in Forestry and Wildlife Conservation and Management.

A study of the properties of soils and their relation to soil management.

Mr. Clevenger, Mr. Lutz.

## Soils 221. Soil Fertility.

3-0-0

Prerequisite: Soils 201. Required of juniors in Pomology, Vegetable Gardening, Floriculture, Field Crops, Vocational Agriculture, and of seniors in Agricultural Engineering.

A course dealing with the chemical and biological properties of soils as related to soil productivity.

Mr. Lutz.

### Courses for Advanced Undergraduates

#### Soils 302. Fertilizers.

0-3-0 or 0-0-3

Prerequisite: Soils 201 and Chem. 221. Required of juniors in Pomology, Vegetable Gardening, Field Crops, Floriculture, and Vocational Agriculture.

Sources, manufacture, and characteristics of fertilizer materials, utilization of fertilizers; calculation of formulas and analyses of mixed fertilizers.

Mr. Clevenger.

#### Soils 312. The Soils of North Carolina.

0-3-0

Prerequisite: Soils 201. Required of juniors in Soils and Floriculture, and of seniors in Wildlife Conservation, Vegetable Gardening, and Agricultural Economics; Farm Business Option.

The origin, characteristics, and classification of North Carolina soils. Field trips.

Mr. Lutz.

#### Soils 323. Soil Survey.

0-0-3

Prerequisites: Ten credit hours in Soils including Soils 312 or equivalent. Elective for juniors and seniors in Agriculture.

Making soil maps, and writing soil-survey reports. Mr. Clevenger.

#### Courses for Advanced Undergraduates and Graduates

#### Soils 401. Pedology.

3-0-0

Required of seniors in soils. Prerequisite: Soils 221.

Soil groups of the world, with special attention to the characteristics and development of the soils in the United States.

Mr. Clevenger.

### Soils 402. Principles and Use of Fertilizers.

0-3-0

Prerequisites: Senior standing, Soils 201, and 24 credit hours in Chemistry.

Early theories of fertilizer practises, fertilizer materials, mixed fertilizers, the nitrogen problem, trace elements, and other phases. This course treats the subject from a more advanced viewpoint than Soils 302.

Mr. Clevenger.

#### Soils 403. Fertilizer Experimentation.

0-0-3

Prerequisite: Soils 402, or 302.

A study of the methods of determining the fertilizer needs of soils.

Mr. Clevenger.

3-3-3

## Soils 411, 412, 413. Soil Technology.

Prerequisite: Soils 221, Chem. 211-212. Required of seniors in Soils. A course dealing with the physical and chemical properties of soils.

Mr. Lutz.

## Soils 421. Soil Fertility Evaluating Methods.

3-0-0

Prerequisites: Soils 302 and Chem. 213.

Analysis for total and available elements in the soil and the use of Staff. analyses in soil diagnosis.

### Soils 423. Soil Management.

0 - 0 - 3

Prerequisite: Soils 302.

Rotations, fertilizer recommendations, and other practical soil management problems for North Carolina soils and cropping systems. Mr. Lutz.

## Soils 432. Physical and Colloidal Properties of Soils.

0 - 3 - 0

Prerequisite: 18 credits in soils, and Chem. 213.

Base exchange, absorption phenomena and other physical and colloidal soil properties as related to soil fertility. Offered in alternate years. Offered in 1940-41. Mr. Lutz.

#### Soils 433. Soil Conservation and Land Use.

0 - 0 - 3

Required of seniors in Soils and in Agricultural Engineering. Prerequisite: Soils 221.

Factors affecting soil deterioration; soil conservation and land use.

Mr. Lutz.

### Soils 451, 452, 453. Senior Seminar.

1-1-1

For seniors in Soils. Prerequisite: 15 credits in Soils.

Reports on problems and current scientific articles dealing with soil science. Staff.

## Courses for Graduates Only

## Soils 501. Soil Development.

3-0-0

Prerequisite: Graduate standing in Soils.

Genesis, morphology, and development of the great soil groups of the world as determined by environmental factors. Mr. Lntz.

## Soils 513. Advanced Principles and Use of Fertilizers.

0 - 0 - 3

Prerequisite: Graduate standing in Soils.

Problem studies in the manufacture, characteristics, and utilization of fertilizers.

Mr. Clevenger.

## \*Soils 522. Soil Physics.

0-3-0

Prerequisite: Graduate standing in Soils.

Advanced study of soil structure, aeration, water relationships, mechanical analyses, and other physical properties of soils. Offered in alternate years.

Mr. Lutz.

## Soils 531, 532, 533. Seminar.

1-1-1

Prerequisite: Graduate standing in Soils.

Reports and discussions of problems in Soil Science.

Staff.

## Soils 541, 542, 543. Soil Research.

3-3-3

Prerequisite: Graduate standing in Soils.

Research in specialized phases of Soil Science.

Staff.

#### TEXTILES

## Courses for Undergraduates

# Tex. 101, 102, 103. Textile Principles.

2-2-2

Required of freshmen in all Textile curricula.

Operation of plain and automatic looms and carding and spinning machines.

Principles of manufacture involved in the textile industry. Elementary calculations for yarns and fabrics; harness and reed calculations; loom production calculations.

Mr. Peeler, Mr. Culberson, Mr. Crawley.

## Tex. 205. Yarn Manufacture I.

3-0-0 or 0-0-3

# Tex. 201, 203. Yarn Manufacture Laboratory I.

1-0-1 or 0-1-1

Required of sophomores in all Textile curricula,

Mixing of cotton, description and setting of openers, pickers, cards and draw frames. Production, speed and draft calculations. Operation and fixing of machines. Grinding and setting of cards; setting of draw frame rolls and construction of draw frames; weighting of rolls and types of roll covering.

Mr. Hilton, Mr. Culberson.

<sup>\*</sup> Not offered in 1940-41.

Tex. 211. Knitting I.

2-0-0 or 0-0-2

Tex. 207, 208, 209. Knitting Laboratory I.

1-1-1

Required of sophomores in all Textile curricula.

Selection and preparation of knitting yarns, knitting mechanisms, plain and rib knitting machines, circular ribbers, and circular automatic machines. Operation of machines, practical experiments, hosiery analysis, topping, transferring, and looping.

Mr. Lewis.

Tex. 234. Power Weaving.

0-2-0

Tex. 231, 232. Power Weaving Laboratory.

1-1-0 or 0-1-1

Required of sophomores in all Textile curricula.

Construction of auxiliary motions on plain looms. Cams and their construction. Drop-box loom construction. Methods of pattern chain building. Construction and value of pattern multipliers. Timing of drop-box motion, and other motions.

Operation and fixing of plain, automatic and drop-box looms. Pattern chain building for drop-box looms. Mr. Nelson, Mr. Peeler, Mr. Crawley.

Tex. 236, 237. Fabric Structure and Analysis.

0-2-2 or 4-0-0

Required of sophomores in all Textile curricula.

Systems of numbering woolen, worsted, silk, linen, rayon, and cotton yarn. Plain, twill, and sateen weaves. Ornamentation of plain weaves; wave designs; pointed twills; diamond effects; plain and fancy basket weaves; warp and filling rib weaves.

Analyzing plain, twill, sateen, and other fabrics made from simple weaves, ascertaining the number of ends and picks per inch in sample. Fabric analysis calculations.

Mr. Peeler, Mr. Crawley.

# Tex. 239. Principles of Textile Manufacturing I.

3-0-0

A study of the processes and machines used in textile manufacture, planned as an overview course for those preparing to be teachers of industrial arts in junior and senior high schools or in vocational schools.

Mr. Nelson, Mr. Hilton.

# Courses for Advanced Undergraduates

Tex. 304. Yarn Manufacture II.

0 - 3 - 0

Tex. 301, 302, 303. Yarn Manufacture Laboratory II.

1-1-1

Required of juniors in Textile Manufacturing. Elective for others. Prerequisite: Yarn Manufacture I, Tex. 201, 3, 5.

## Tex. 310, 311. Yarn Manufacture III.

0-3-3

# Tex. 307, 308, 309. Yarn Manufacture Laboratory IIL.

2-2-2

Required of juniors in Yarn Manufacture. Prerequisite: Yarn Manufacture I, Tex. 201, 3, 5.

Construction of sliver lappers; ribbon lappers; combers; mechanical and electrical stop motions; description and setting of the different parts; care of machines; fly-frame builder and differential motions.

Operation and fixing of sliver lappers; ribbon lappers; combers and fly-frames. Changing of hank roving, draft and twist. Setting of drafting and speeder motions.

Mr. Hilton, Mr. Culberson.

## Tex. 316. Knitting II.

0-3-0

# Tex. 313, 314, 315. Knitting Laboratory II.

1-1-1

Elective for Textile students. Prerequisite: Knitting I, Tex. 207, 8, 9, 11.
Advanced circular mechanisms. Hosiery design. Auxiliary knitting machinery. Warp and spring needle knitting. Knitting machinery lay-out and organization. Production control and costs. Laboratory experiments.

Mr. Lewis.

## Tex. 335. Dobby Weaving.

3-0-0 or 0-0-3

# Tex. 331, 332, 333. Dobby Weaving Laboratory I.

1-1-1

Required of juniors in Textile Manufacturing and Yarn Manufacturing. Elective for others.

# Tex. 337, 338, 339. Dobby Weaving Laboratory II.

2-2-2

Required of juniors in Weaving and Designing. Prerequisites: Power Weaving, Tex. 231, 2, 4.

Methods of drawing in and starting up cotton and rayon warps. Setting of harness shafts. Selection of springs or spring jacks. Construction and methods of fixing single and double index dobbies. Methods of pattern-chain building.

Preparation of warps for weaving cotton and rayon fabrics on dobby locms; starting up warps in looms; fixing single and double index dobbies; pattern-chain building; operation of dobby looms. Mr. Nelson, Mr. Hart.

# Tex. 341, 342. Fabric Design and Analysis I.

3-3-0 or 0-3-3

Required of juniors in Textile Manufacturing and Weaving and Designing. Elective for others.

Prerequisites: Fabric Structure and Analysis, Tex. 236, 7.

Construction of fancy weaves, such as broken twills, curved twills, entwining twills; granite weaves. Imitation leno; honeycomb weaves; fabrics

backed with warp or filling; fabrics ornamented with extra warp or filling;

combining weaves together to produce new patterns.

Analyzing samples of fancy fabrics for design, drawing in draft, reed, and chain plan. Calculating particulars to reproduce fabrics from data obtained from sample.

Mr. Shinn.

## Tex. 343. Fabric Testing.

0-0-1

Required of juniors in Textile Manufacturing, Textile Chemistry and Dyeing, and Weaving and Designing. Prerequisites: Fabric Structure and Analysis, Tex. 236, 7.

Testing fabrics for strength. Effect of heat upon fabrics. Effect of regain upon tensile strength. Elasticity of fabrics. Micrometer and calculated tests for fabric thickness.

Mr. Shinn.

## Tex. 344. Calculating Fabric Costs.

0 - 3 - 0

Elective for Textile students. Prerequisites: Fabric Structure and Analysis, Tex. 236, 7.

Special attention is given to distribution of costs to various productive processes, summarizing costs, the determination and use of unit costs, and the making of cost reports.

Mr. Shinn.

### Tex. 345. Textile Calculations I.

0 - 0 - 3

Required of juniors in Textile Manufacturing and Weaving and Designing. Elective for others. Prerequisites: Fabric Structure and Analysis. Tex. 236. 7.

An intensive course in calculations for designing, weaving, and analyzing cotton, rayon, silk, wool, worsted and linen yarns and fabrics. Weight of fabrics, ends and picks per inch. Costing of fabrics. Reed and harness calculations. Loom speed and production.

Mr. Hart.

## Tex. 347. Principles of Textile Manufacturing II.

0 - 0 - 3

Prerequisites: Principles of Textile Manufacturing I, Tex. 239.

A study of the operation and care of textile machines, planned for those who are preparing to be teachers in vocational schools.

Mr. Nelson, Mr. Hilton.

# Tex. 375. Dyeing I.

3-0-0 or 0-0-3

and

#### Tex. 371, 372, 373. Dyeing Laboratory I.

1-1-1

Required of juniors in Textile Manufacturing. Elective for others. Prerequisites: Chemistry 103.

Physical and chemical properties of textile fibres. Chemicals used in preparing fibres for dyeing. Methods of applying substantive, sulphur,

basic, developed, acid, acid chrome, mordant and vat dyes. Effect of changes in temperature and volume of the dye bath. Theory of dyeing mixed fabrics. Theory of mercerizing. Tests for the chemical constituents of the fibres. Dyeing experiments using all the different classes of dyes on the various fibres. Tests showing effect of varying such factors as bath, temperature and time. Test for fastness to light, washing, crossdyeing, and so forth. Mercerizing experiment.

Mr. Grimshaw, Mr. Hayes.

Tex. 381, 382. Dyeing II. and

3-3-0

Tex. 377, 378, 379. Dyeing Laboratory II.

2-2-2

Required of juniors in Textile Chemistry and Dyeing. Prerequisite: Chemistry 103.

Physical and chemical properties of textile fibres. Lectures on wool, silk, rayon, and cotton; hydrometers and chemicals used in dyeing and finishing. Application of dyestuffs to different fibres. Effect of changing bath, temperature, or time factor. Money value and strength tests of dyes. Theory of dyeing mixed fabrics. Mercerizing.

Microscopic examination of textile fibres. Dyeing experiments using different classes of dyes on textile fibres. Tests showing the effects of varying such factors as bath, temperature, and time. Fastness to light, washing, and cross dyeing. Money value and strength of various dyes. Mercerizing.

Mr. Grimshaw, Mr. Hayes.

#### Courses for Graduates and Advanced Undergraduates

Tex. 405. Yarn Manufacture IV.

3-0-0 or 0-0-3

Tex. 401, 402, 403. Yarn Manufacture Laboratory IV.

1-1-1

Required of seniors in Textile Manufacturing. Elective for others. Prerequisites: Yarn Manufacture, Tex. 301, 2, 3, 4.

Tex. 411, 412. Yarn Manufacture V.

3-3-0

Tex. 407, 408, 409. Yarn Manufacture Laboratory V.

2-2-2

Required of seniors in Yarn Manufacturing. Prerequisites: Yarn Manufacture, Tex. 307, 8, 9, 10, 11.

Spinning; spooling; warping; twisting. Description and setting of different parts. Builder motions for warp and filling. Bobbin holders, thread guides, traverse motions. Ply yarns. Calculations for twist, speed, and production.

Practical methods of spinning, warping, spooling, winding and twisting. Setting of spinning rolls, spinning frame builder motions for warp, filling, and combination build. The practical application of all machines in Yarn Manufacture.

Mr. Hilton, Mr. Culberson.

#### Tex. 413. Textile Calculations II.

3-0-0

Required of seniors in Yarn Manufacturing. Elective for others. Prerequisites: Yarn Manufacture II or III, Tex. 304 or 310, 11.

Principles underlying the calculation of draft, twist, speed, and production. Systems of numbering yarns. Doubling and twisting yarns. Lay, tension, differential, and cone drum calculations. Practice in solving practical mill problems.

Mr. Hilton.

## Tex. 415. Manufacturing Problems.

0 - 0 - 3

Required of seniors in Yarn Manufacturing. Elective for others. Prerequisites: Yarn Manufacture II or III, Tex. 304 or 310, 11.

Mill organization and administration. Machine layout for long and regular draft spinning; production control and costs; making of novelty yarns; making of daily and weekly reports; breaking of single and ply yarns. Regular and reverse twisted yarns.

Mr. Hilton.

#### Tex. 416. Wool Manufacture I.

0-3-0

### Tex. 417, 418. Wool Manufacture Laboratory I.

1-1-0

Elective for Seniors in Textile School. Prerequisites: Yarn Manufacture II or III, Tex. 304, or Tex. 310, 311.

Physical and chemical properties; reclaimed wool and secondary raw materials; grading; sorting; mixing and blending; oiling and garnetting. Description of feeders; cards; tape condensers; card setting; stripping and grinding; woolen spinning; twister head; mechanical details and production. The practical application of machines in Woolen Yarn Manufacture.

Mr. Hilton.

#### Tex. 435. Cotton, Wool and Rayon Weaving.

0-0-3

## Tex. 431, 432, 433. Cotton, Wool and Rayon Weaving Laboratory L 1-1-1

Required of seniors in Textile Manufacturing. Elective for others. Pre-requisites: Dobby Weaving, Tex. 331, 2, 3, 5.

## Tex. 437, 438, 439. Cotton, Wool and Rayon Weaving Laboratory II. 2-2-2

Required of seniors in Weaving and Designing. Prerequisites: Dobby Weaving, Tex. 335, 7, 8, 9.

Principles of loom construction to weave rayon and fine cotton fabrics. Pick and pick looms. Box and multiplier chain-building. Arrangement of colors in boxes to give easy running loom. Extra appliances for weaving leno, towel, and other pile fabrics. Construction and operation of single, double lift, and rise and fall jacquards. Tie-up of harness for dress goods,

table napkins, damask, and other jacquard fabrics, such as leno. Relative speed of looms. Production calculations and fabric costs.

Operation and fixing of dobby, pick and pick, and jacquard looms. Preparation of warps to weave rayon, wool and fine cotton fabrics. Building of box, dobby, and multiplier chains.

Mr. Nelson, Mr. Hart.

#### Tex. 441. Leno Design.

3-0-0 or 0-3-0

Required of seniors in Textile Manufacturing and in Weaving and Designing. Elective for others. Prerequisites: Fabric Design and Analysis I, Tex. 341, 2.

Leno weaves with one, two, or more sets of doups. Combination of plain and fancy weaves with leno. Methods of obtaining leno patterns. Methods of making original designs for dress goods, draperies.

Mr. Nelson, Mr. Shinn.

#### Tex. 443. Dobby Design.

3-0-0 or 0-3-0

Required of seniors in Textile Manufacturing and in Weaving and Designing. Elective for others. Prerequisites: Fabric Design and Analysis I, Tex. 341, 2.

Designing fabrics, such as fancy crepes, figured double plain, matelasse, velvets, corduroys, pique, lines of samples.

Mr. Nelson.

#### Tex. 445. Jacquard Design.

0 - 0 - 3

Required of seniors in Textile Manufacturing and juniors in Weaving and Designing. Elective for others. Prerequisites: Fabric Design and Analysis I, Tex. 341. 2.

Designing fancy and jacquard fabrics. Methods of making original designs for table napkins, table covers, dress goods, draperies.

Mr. Nelson, Mr. Shinn.

#### Tex. 447, 448, 449. Jacquard Design Laboratory.

1-1-1

Required of seniors in Weaving and Designing. Prerequisites: Jacquard Design, Tex. 445.

Designing fancy and jacquard fabrics. Methods of making original designs by combinations of color, weave, and sketches. Designs for table napkins, table covers, dress goods, draperies. Mr. Nelson, Mr. Shinn.

#### Tex. 451, 452. Fabric Analysis.

2-2-0

Required of seniors in Textile Manufacturing and Weaving and Designing. Elective for others. Prerequisites: Fabric Design and Analysis, Tex. 341, 2.

Analyzing samples of cotton, wool, worsted, linen, rayon, and silk fabrics

for size of yarns, ends and picks per inch, weight of warp and filling, so as to accurately reproduce samples analyzed. Obtaining design, drawing in draft, chain, and reed plan for fancy fabrics, such as stripes, checks, extra warp and extra filling figures, leno fabrics, jacquard fabrics, draperies.

Mr. Nelson, Mr. Shinn.

#### Tex. 453. Fabric Design and Analysis II.

0-0-3

Required of seniors in Weaving and Designing. Prerequisites: Fabric Design and Analysis I, Tex. 341, 2.

Design and analysis of fancy fabrics. Making fabrics from sketches and specifications.

Mr. Shinn.

#### Tex. 455, 456. Color in Woven Design.

3-3-0

Required of seniors in Weaving and Designing. Elective for others. Prerequisites: Fabric Structure and Analysis, Tex. 236, 7.

Pigment and light theories of color. Contrast and harmony of color. Factors which influence quality, style, and color. Methods of applying weaves and color to fabrics for wearing apparel and home decorations.

Mr. Hart.

#### Tex. 457, 458, 459. Textile Testing.

1-1-1

Elective for Textile students. Prerequisite: Fabric Testing, Tex. 343 or equivalent.

Tests for moisture content, regain, twist, and tensile strength. Description and operation of testing equipment. Solution and written reports of assigned textile problems.

Mr. Hart, Mr. Hilton, Mr. Shinn.

#### Tex. 474. Cotton and Rayon Dyeing I.

0 - 3 - 0

#### Tex. 471, 472, 473. Cotton and Rayon Dyeing Laboratory I.

1-1-1

Required of seniors in Textile Manufacturing. Elective for others. Prerequisites: Dyeing I, Tex. 371, 2, 3, 5.

Lectures on color mixing, money value of dyes. Testing of dyes, water starch, and materials used in sizing. Lubricating oils and oil compounds. Processes and machinery used in dyeing and finishing. Textile printing. Apparatus used in research laboratory.

Color matching. Testing dyes for strength and money value. Physical and chemical examination and application of starches, sizing materials and finishing compounds. Examination of textile oils, soap, and all the different rayons. Analysis of mixed fabrics.

Mr. Grimshaw, Mr. Hayes.

Tex. 477, 478, 479. Cotton and Rayon Dyeing Laboratory II.

2-2-2

Required of seniors in Textile Chemistry and Dyeing. Prerequisites: Dyeing II, Tex. 377, 8, 9, 381, 2.

Theories of color matching. Lectures on color mixing, water and mold, starch, materials used in sizing. Lubricating oils, textile oils and oil compounds. Processes and machinery used in dyeing and finishing. Method of analyzing textile fabrics. Laboratory equipment used in textile research and testing laboratories.

Color matching. Physical and chemical examination and application of textile oils, soaps, and finishing compounds. Microscopial and chemical tests on rayons. Dyeing various types of rayon. Operation of dyeing and finishing equipment in the dye house and research laboratories.

Mr. Grimshaw.

Tex. 487. Textile Printing.

3-0-0

Tex. 483, 484, 485. Textile Printing Laboratory.

1-1-1

Prerequisites: Dyeing II, Tex. 381, 2.

The history of printing and the development of machinery used. Calico printing with the mordant, basic, and vat colors, analine black, indigo, and insoluble azo colors. Resist and discharge styles.

Paste mixing. Practical experiments. Mr. Grimshaw, Mr. Hayes.

Tex. 489, 490. Textile Microscopy.

1-1-0

Required of seniors in Textile Chemistry and Dyeing. Elective for others. Prerequisites: Dyeing I or II, Tex. 375 or 381, 2.

Instruction in the use of the microscope. Examination of fibres. Preparation of permanent slides. Mr. Grimshaw, Mr. Hayes.

Tex. 495. Principles of Fabric Finishing.

0-0-3

Tex. 491, 492, 493. Principles of Fabric Finishing Laboratory.

1-1-1

Elective for Textile students. Prerequisites: Dyeing II, Tex. 371, 2.

A study of machinery used in finishing of textile fabrics and in textile printing, with lectures and pictures. Lectures on materials used in the textile finishing and printing industry and experiments. Mr. Grimshaw.

#### Courses for Graduates Only

#### Tex. 501, 502, 503. Yarn Manufacture.

3-3-3

Prerequisites: Yarn Manufacture IV, Tex. 405 or equivalent.

A study of breaking strength and related properties of cotton yarns made under various atmospheric conditions; comparison of yarns produced from long and short-staple cotton with regular and special carding processes; efficiency of various roller covering materials at the drawing processes; elimination of roving processes by special methods of preparation; comparison of regular and long-draft spinning.

Mr. Hilton.

#### Tex. 505, 506, 507. Textile Research.

3-3-3

Prerequisite: Graduate standing.

A study of the moisture content of cotton yarns and fabrics. The convolutions in cotton fibres and their relation to spinning, weaving, and dyeing. The effect of mercerization on cotton yarns and fabrics. Testing yarns and fabrics under variable conditions for breaking strength and elasticity.

Textile Staff.

#### Tex. 531, 532, 533. Textile Design and Weaving.

3-3-3

Prerequisites: Leno, Dobby and Jacquard Design, Tex. 441, 3, 5 or equivalent.

Study and practice in more advanced designing and analyses of fabrics, such as lenos made with twine and wire doups, lappits, and other fancy fabrics. Designing for jacquard dress goods, table covers, reversibles, and other fabrics. Making original designs for dobby and jacquard fabrics. Fabric costs. Weaving fancy and jacquard fabrics.

Messrs. Nelson, Hart, and Shinn.

#### Tex. 535, 536, 537. Seminar.

1-1-1

Discussion of scientific articles of interest to textile industry. Review and discussion of student papers and research problems. Textile Staff.

#### Tex. 571, 572, 573. Textile Dyeing.

3-3-3

Prerequisites: C. & R. Dyeing I, Tex. 474 or equivalent.

The course consists of matching shades from standard and season color cards upon classes of materials which require skill in their dyeing, such as three-fibre, cotton-wool, and half-silk hosiery, woolens and worsteds with effect stripes, and cotton fabrics with woven figures or stripes of the different varities of artificial silk. Advanced work on chemical and microscopical examination of materials used in dyeing and finishing.

Mr. Grimshaw.

Tex. 575. Advanced Textile Microscopy.

0-0-3

Prerequisites: Textile Microscopy, Tex. 489, 490.

Microscopic study of textile starches, fibres, fabrics, oils, etc.

Study of mounting media for above. Methods of mounting textile materials. Methods of cross-sectioning textile materials. Photomicrography.

Mr. Grimshaw.

#### ZOOLOGY

#### Courses for Undergraduates

#### Zool. 101. General Zoölogy.

4-0-0

Required of freshmen in General Agriculture, Teachers of Agriculture, Forestry, Wildlife Conservation, and of juniors in Agricultural Engineering.

An elementary study of animals, with special reference in the morphology and physiology of the vertebrates.

Messrs. Metcalf, Mitchell, Meacham, Bostian, McCutcheon, Harkema.

#### Zool. 102. Economic Zoölogy.

0-4-0

Required of freshmen in Forestry and Wildlife Conservation; of sophomores in General Agriculture, of Teachers of Agriculture, and in Agricultural Chemistry; of juniors in Landscape Architecture.

An elementary study of animals with special reference to the more important economic groups; designed to give the student a general knowledge of the animal kingdom.

Messrs. Metcalf, Mitchell, Meacham, Bostian, McCutcheon, Harkema.

#### Zool. 111. Elementary Wildlife Management.

1-0-0

Required of freshmen in Wildlife Conservation.

An introductory survey of the various branches in the field of wildlife management.

Mr. Stevens.

#### Courses for Advanced Undergraduates

#### Zool. 202. Animal Physiology.

0-5-0 or 0-0-5

Prerequisites: Zool. 101, Phys. 115, Chem. 101, 102, and 103. Alternate for sophomores in General Agriculture, Teachers of Agriculture and Agricultural Chemistry; required of juniors in Wildlife Conservation.

Comparative physiology of vertebrates, with particular reference to mammals and man. Detailed studies of various functions, with metabolism emphasized.

Mr. McCutcheon.

#### Zool, 213. Economic Entomology.

0 - 0 - 4

Prerequisite: Zool. 102. Required of freshmen in Forestry; juniors in Wildlife Conservation, Landscape Architecture, Teachers of Agriculture, Vegetable Gardening, Pomology, Plant Pathology and Floriculture.

A general study of the insects, including their economic importance and Messrs. Mitchell, Meacham, Bostian. the principles of control.

#### Zool. 222-223. Comparative Anatomy.

0-4-4

Prerequisite: Zool. 101, 102. Required of sophomores in Wildlife Conservation; of juniors in Entomology.

Comparative morphology of vertebrates. Interrelations of organ systems Mr. Harkema. studied for the various groups.

#### Zool. 241, 243. Beekeeping.

3 - 0 - 3

Prerequisite: Zool. 102. Required of seniors in Entomology.

Designed to give the principles of scientific beekeeping and honey mar-Mr. Meacham. keting.

#### Zool. 251, 252, 253. Ornithology.

2 - 2 - 2

Prerequisite: Zool. 101, 102. Required of sophomores in Wildlife Conservation.

A course dealing with the biology and morphology of North American Mr. Metcalf. birds.

#### Zool. 302. Forest Entomology.

0 - 3 - 0

Prerequisite: Zool. 213. Required of juniors in Forestry.

A special study of forest insects, including the factors governing abundance, and the application of this knowledge in control. Mr. Mitchell.

#### Zool. 312. Principles of Game Management.

0 - 3 - 0

Elective for juniors and seniors not in Game Management.

Brief survey of the field, study of the major principles involved, and the correlation of wildlife management with other land uses. Mr. Stevens.

#### Zool. 321, 322, 323. Wildlife Conservation.

3-3-3

Required of juniors in Wildlife Conservation and Management. Prerequisite: Zool 251, 252, 253, F. C. 202, Bot. 101, 102, 203.

History of game and wildlife management. Relation of wildlife conservation to soil and forest conservation. National and State park, and general farming operations. Mr. Stevens.

#### Zool. 332. Fur Resources.

0 - 3 - 0

Prerequisite: Zool. 321, 322, 323. Elective for juniors and seniors in Wildlife Conservation.

Study of the fur industry; the life history and management of the important fur-bearing animals; skinning, drying, marketing pelts, and fur farming.

Mr. Stevens.

#### Courses for Graduates and Advanced Undergraduates

#### Zool. 401, 402, 403. Applied Entomology.

3-3-3

Prerequisite: Zool. 213. Required of seniors in Entomology.

A detailed study of the relation of insects to human welfare and the principles of insect control; the special study of the more important insects directly or indirectly affecting man; and a special study of methods of investigation.

Mr. Mitchell.

#### Zool. 411, 412. Genetics.

4-4-0

Prerequisite: Bot. 101, 102 or Zool. 101. Fall term required of juniors in Animal Production, Entomology, Field Crops, Floriculture, Pomology, Poultry Science, and Vegetable Gardening; of seniors in Plant Pathology.

Basic principles of heredity and variation. Students carry on and analyze breeding experiments, analyze inheritance in various animals and plants.

Mr. Bostian.

#### Zool. 421, 422, 423. Systematic Zoölogy.

3-3-3

Prerequisite: Zool. 101, 102. Required of juniors in Entomology.

The classification of various groups of animals.

Mr. Metcalf, Mr. Mitchell.

#### Zool. 431, 432. Advanced Physiology.

0 - 3 - 3

Prerequisite: Zool. 101, 102, 202. Elective for juniors and seniors.

Special studies in animal physiology with emphasis on fundamental processes involved. Lectures, reports, and conferences to promote an acquaintance with general literature and recent advances; selected exercises and demonstrations to develop experimental technique. Mr. McCutcheon.

#### Zool. 433. Field Zoölogy.

0 - 0 - 4

Prerequisite: Zool. 101 and 213, or 222, 223. Required of juniors in Wildlife Conservation and seniors in Entomology.

The study of the relation between animals and their environment. Frequent excursions to the field will be taken.

Mr. Metcalf, Mr. Bostian.

#### Zool. 441, 442. Histology.

3-3-0

Prerequisite: Zool. 101-102, 202, 222-223. Required of seniors in Entomology.

A study of animal tissues and their preparation.

Mr. Harkema.

#### Zool. 443. Insect Physiology.

3-0-0

Prerequisite: Zool. 202. Elective for juniors and seniors.

Study of the mechanisms involved in the life processes of insects.

Mr. McCutcheon.

#### Zool. 451, 452, 453. Wildlife Management.

3-3-3

Prerequisite: Zool. 321-322-323. Required of seniors in Wildlife Conservation.

Study of the foods and feeding habits of the more important groups of wild animals. Field and laboratory studies of wildlife management and research, and the economic relations of game, predatory, and fur-bearing animals.

Mr. Stevens.

#### Zool. 461. Vertebrate Embryology.

5-0-0

Prerequisite: Zool. 101, 102. Required of juniors in Poultry Science, and seniors in Entomology.

The comparative embryology of the principal groups of vertebrates, with special emphasis on the chick.

Mr. Harkema.

#### Zool. 462, 463. Advanced Animal Ecology.

0 - 3 - 3

Prerequisite: Zool. 433. Required of seniors in Wildlife Conservation.

A course devoted to animal geography and the factors which influence the distribution of animals.

Mr. Metcalf.

#### Zool. 471, 472, 473. Advanced Wildlife Management.

3-3-3

Prerequisite: Concurrently with or preceded by Zool. 321, 322, 323. Elective for seniors in Wildlife Conservation.

An assigned problem to be planned and worked out by the student. A term paper covering the procedure.

Mr. Stevens.

#### Zool. 481, 482, 483. Advanced Food Habits Problems.

3-3-3

Prerequisite: Concurrently with or preceded by Zool. 451-452-453. Elective for seniors in Wildlife Conservation.

Assigned or selected problem dealing with the foods and feeding habits of one species of wild animal or a group of similar wild animals.

Mr. Stevens.

Zool. 492, 493. Parasitology.

0-3-3

Prerequisite: Zool. 101, 102, 222, 223. Required of seniors in Wildlife Conservation.

A study of the structures, life-cycles and control of animal parasites.

Mr. Harkema.

#### Courses for Graduates Only

Zool. 501, 502, 503. Systematic Entomology.

3-3-3

Prerequisite: Zool. 421, 422, 423.

Codes of nomenclature, methods of writing descriptions, constructing keys, determining priority, selecting and preserving types, and making bibliographies and indexes.

Mr. Metcalf, Mr. Mitchell.

Zool, 511, 512, 513. Research in Zoölogy.

3-3-3

Prerequisite: Eighteen term credits in Zoölogy.

Problems in development, life history, morphology, physiology, ecology, genetics, game, management, taxonomy, or parasitology.

Messrs. Metcalf, Meacham, Mitchell, Bostian, McCutcheon, Harkema, Stevens.

Zool. 521, 522, 523. Seminar.

1-1-1

Prerequisite: Eighteen term credits in Zoölogy.

Mr. Metcalf.

Zool, 533. Advanced Genetics.

0-0-3

Prerequisite: Zool. 411, 412.

An advanced study of heredity and variation, including biometry. The student will select a problem in breeding to be carried out as a part of the course.

Mr. Bostian.

#### V. SUMMARY OF ENROLLMENT

#### 1939-1940\*

1. Resident Students		
A. Candidates for Degrees		
1. Freshmen	998	
2. Sophomores	595	
3. Juniors	412	
4. Seniors	355	
5. Graduates	117	
6. Candidates for Professional Degrees	4	
Total	2,481	
B. Irregular Students		
†1. Extension Classes in Raleigh and Cary	328	
2. Special Students	20	
Total	348	2,829
†2. Non-resident Students		
A. Correspondence Students for College Credit	1,247	
B. Extension Students (Classes outside Raleigh)	630	
C. Correspondence Students in Practical Courses,		
no credit	36	
Total	1,913	4,742
3. Summer School Students, 1939		
A. Regular Students	<b>504</b>	
1. Six weeks	704	
2. Three Weeks	68	
	35	
B. C. C. Educational Advisers (Two weeks)	22	
C. Cotton Classing Students, no credit	10	
Total	839	5,581
4. Short Courses and Special Conferences		
1. Institute for Surveyors (three days)	21	
2. Institute for Engineers (one day)	98	
3. Conference for Plumbing and Heating Contractors		
(two days)	82	
4. Institute for Water Plant Operators (four days)	57	
5. Institute, Electrical Meters and Relays (four days)	83	
6. Institute, Plumbing and Heating Contractors (three		
days)	91	
7. Institute for Street Superintendents (two days)	38	
8. Short Course for Photographers (five days)	20	

<sup>\*</sup> Does not include Spring Term, 1939-1940. † Data from January, 1939 to January, 1940.

10. Institute for Electrical 11. Institute for Gas Plant 12. Older Youth Conference 13. Tobacco Growers Shor 14. Agricultural Teachers 15. Farm Boys and Girls ( 16. Farm Men and Women 17. Young Tar Heel Farm  Total	Cont Oper Ce (for t Cou (one one v	ree days) 204 cractors (four days) 84 crators (two days) 102 cour days) 50 cree (four days) 50 week) 980 1,590 three days) 654 4,632
	MEN'	F BY CURRICULA
Basic Division	0.41	Teacher Training
Agriculture		Agricultural Education 110
Engineering		Industrial Arts Education 30
Teacher Training		Industrial Education
Textiles	. 190	Occup. Inf. and Guidance 9
Total	1 000	Total 150
Total		Total 150
Agriculture		
Agricultural Options		Textiles
Agricultural Chemistry		
Agricultural Engineering		Textile Chemistry and Dyeing 33
Forestry		Textile Management
Landscape Architecture		Textile Manufacturing 90
Wildlife Management	. 9	Weaving and Designing 12
		Yarn Manufacturing 2
Total	. 336	
Engineering		Total 170
Architectural	. 36	
Ceramic	. 31	Non-classified Auditors 16
Chemical	. 156	
Civil	. 36	* * * * *
Civil-Construction Option	. 25	
Civil-Highway Option	. 3	Distribution of Graduate students
Civil-Sanitary Option		by schools (included in above de-
Electrical	91	partmental classifications).
General	. 3	Agriculture68
Geological	. 7	Engineering
Industrial	. 37	Teacher Training 15
Mechanical	75	Textiles 5
Mechanical-Aeronautical		Candidates for Professional
Option	40	Degrees4
Total	546	Total 121

#### VI. FIFTIETH ANNUAL COMMENCEMENT Monday Evening, June 5, 1939

#### **DEGREES CONFERRED**

#### SCHOOL OF AGRICULTURE AND FORESTRY

BACHELOR OF SCIENCE

#### IN AGRICULTURAL CHEMISTRY

Clarence Earley	Rutherfordton	
IN AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY, FARM BUSINESS ADMINISTRATION OPTION		
*Bernice Gordon Andrews	Robersonville	
Lacy Wilson Coats		
Claude Banks Faris, Jr.	Raleigh	
Russell Phipps Handy		
*Richard Comings Larkin		
James Edward McCall		
**Paul Sink Thompson	Cleveland	
FARM MARKETING AND FARM FINANCE (	PTION	
*Albert Doub, Jr.	Raleigh	
Dinar Social agy Opmion		
RURAL SOCIOLOGY OPTION	~ .	
James Woodrow Atkinson	Selma	
In Agricultural Engineering		
*Edwin Padgette Barnes		
Walter Edward Garrard		
Dan L. McLaurin, Jr.	Rowland	
IN ANIMAL PRODUCTION		
Isaac Cody Adams	Clayton	
Robert Ricks Boseman	Rocky Mount	
John Stewart Boyles		
Price Lentz Brawley	Mooresville	
James Everett Brown		
Lewis Lee Copley		
Locke Holland		
*Roy Otis Lackey		
*George Davis MacRae		
Goethe Wilkins Marsh, Jr.		
Ewing Stephenson Millsaps, Jr.	Asheboro	
**J. C. Pierce, Jr.		
John Eldridge Piland		
Leland Eubank Thornton	Hampton, Va.	

<sup>\*</sup> Honors. \*\* High Honors.

# IN DAIRY MANUFACTURING

Joe Hough Ashcraft	Charlotte
Winired Pinkney Seitz	Newton
*Meredith Lee Shumaker	Philadelphia, Pa.

# IN FIELD CROPS AND PLANT BREEDING

·	
Frederick Hughes Bailey	Ralaigh
Dielett Wade Dyrd	Whiteville
Samuel Hill Dobson	Statesville
Robert Lee Edwards	Spring Hone
Wayne Ledbetter Franklin	Franklin
James Robert Hurst	E-man 1-12
Wright Fletcher Parker	Gibson
James Dickey Patton	771-11
Ahmad Faraj Rafik	Sulaimani Iraq
**Harold Frank Robinson	Bandana
James Durwood Thompson	Goldsboro
*Willie Garland Woltz	Bullock

#### IN FORESTRY

II Di Di	
John Blois Bailey	Raleigh
William McCook Balley	Richmond Va
John Sidney Barker, Jr.	Fuguer Springs
**William Lee Beasley, Jr.	Tanisham.
Alfred Euston Butlon In	Louisburg
Alfred Euston Butler, Jr.	Raleigh
Carlos Kenny Dale	Portsmouth, Va.
Donald Cain Dixon	Belle Mead. N. J.
William Grey Evans, II	Wilmington
Joseph Thurman Frye, Jr.	Wardensville W Va
Charles Donovan Harris	Lexington
Harvey Jackson Hartley	Clifton Forge Va
James Begg Hubbard	Williamsburg Va
Duncan Perry Hughes	Colerain
**Ralph Scott Johnson	Raleigh
Ted Marvin Jollay	Durham
*Julian Vinson Lyon	Creedmoor
Hartwell Cornelius Martin	Roanoke Va
Cole Livingston Page	Fairmont
James Frederick Reeves, Jr.	Weaverville
Herbert Ralph Rupp	Mechanicsburg Pa
Richard Wayne Shelley	Forksville Pa
*Robert Weston Slocum	Raleigh
Edward Woodson Smith, III	Norfolk Va
,	TOTIOIN, Va.

<sup>\*</sup> Honors.
\*\* High Honors.

Joe Jones Steele Henry Peters Stoffregen, Jr.	Lenoir
Henry Peters Stoffregen, Jr.	Raleigh
Roy Lynn Westerfield* *Chester Nicholas Wright	Raleigh
*Chester Nicholas Wright	Highlands
Pearson Buckley Yeager	Mt. Union, Pa.
Monte Mervyn Young	Charlotte
In Pomology	
*Paul Joseph Gibson Howard Wilson Ledbetter	Franklin
Howard Wilson Ledbetter	Asheville
IN POULTRY SCIENCE Walter Glenn Andrews	Graham

#### DEPARTMENT OF EDUCATION

IN WILDLIFE CONSERVATION AND MANAGEMENT

Mark Hughes Taylor High Point

#### BACHELOR OF SCIENCE

#### IN AGRICULTURAL EDUCATION

Ralph Mims Aldridge Samuel John Andrews, Jr. Arthur Monroe Benton William Cortez Blackmore, Jr.	Yanceyville
Samuel John Andrews, Jr.	Roseboro
Arthur Monroe Benton	Chadbourn
William Cortez Blackmore, Jr.	Warsaw
James Harris Bost	New London
Luther Owens Crotts	Raleigh
*John Ed Davis, Jr  John Hughes Fisher  Travis Edward Hendren  Vernon Bild Led	Shelby
John Hughes Fisher	Salisbury
Travis Edward Hendren	Hiddenite
Vernon Andrew Huneycutt	Oakboro
William Fields Lathan	Monroe
Bearl Floyd Nesbitt	Fletcher
William Henry Pruden	Margarettsville
Iamae Paul Rahy	West Mills
George Bennett Roberts	Newport
George Bennett Roberts Tolar Vardell Simmons	Roseboro
*Harvey Lee Thomas	Oakboro

<sup>\*</sup> Honors.
\*\* High Honors.

#### IN INDUSTRIAL ARTS

Ralph Waldon Britt	Severn
Robert I. Lainof	
William Vaughn Matheney	Pulaski, Va.

#### SCHOOL OF ENGINEERING

#### BACHELOR OF ARCHITECTURAL ENGINEERING

Louis Humbert Asbury, Jr.	Charlotte
Edwin Lee Coble	
Owen Franklin Smith	Benson
Herbert Stuart Whitley	Williamston

#### BACHELOR OF CERAMIC ENGINEERING

William Cody Cress	Mt. Ulla
Wilson Hamit Ellis	
James Archie Hedgpeth	Rowland
Claude Milton Lambe, Jr.	
John David Langdon	Linden
Gus Palmer, Jr.	Raleigh
John Paul Sawyer, Jr.	Elizabeth City
*William Arthur Scholes	Detroit, Mich.
Bradford Snow Tucker	Raleigh

#### BACHELOR OF CHEMICAL ENGINEERING

William Witty Adkins Leonidas Baker Burnice Clayton Blake  *Vernon Braxton Reeder Butterfield Maurice Odell Caton  **Kenneth Victor Chace Robert Coleman, Jr.  **David Colvin Frederick Fritz Crouch, Jr.  *Lewis Fischer Drum James Franklin Elrod William Edgar Ford  *John Wyatt Foster, Jr.  *Robert John Gottlieb Felix Williamson Graves, Jr.	Summerfield Wilmington
Burnice Clayton Blake	Wilmington
*Vernon Braxton	Snow Camp
Reeder Butterfield	Hawthorne, N. J.
Maurice Odell Caton	Ayden
**Kenneth Victor Chace	Acushnet, Mass.
Robert Coleman, Jr.	Birmingham, Ala.
**David Colvin	Raleigh
Frederick Fritz Crouch, Jr.	Raleigh
*Lewis Fischer Drum	Catawba
James Franklin Elrod	Hickory
William Edgar Ford	Asheville
*John Wyatt Foster, Jr.	Portsmouth, Va.
*Robert John Gottlieb	Asheville
Felix Williamson Graves, Jr.	Mebane
Felix Williamson Graves, Jr.  Charles Olan Hall	Saluda
*Donald Charles Helton	Hickory

<sup>\*</sup> Honors. \*\* High Honors.

Man. D Hard In	C:41-C-14	
William Dameron Hood, Jr.		
*Ray Lowell Hooper		
Nelson Lawrence Hudspeth, Jr.	Wallington Vallington	
Reuel Luther Huffman, Jr.		
*Thurman Ralston Jones, Jr.		
Boyd Francis Joyner		
*Virginius Fowlkes Kasey	Greenville	
Paul Fisher Lineberry		
Adolph Irwin Losick		
William Heston Martin		
*Joseph Harte Padgett		
James Edward Parkin		
Charles Edward Peters		
Thomas Edward Philbeck		
John Gilbert Pickard		
Eldred Oscar Randolph, Jr.		
*Harold Francis Riley	New Bedford, Mass.	
John Ricksom Robbins	Pitman, N. J.	
Henry Allen Ruddock	Charlotte	
**Gordon Janssen Simmons		
Norman Singleton		
**Alexander Martin Smith, II	Elkin	
**Everet Foy Smith		
Leslie Randolph Spain		
*Edgar Duncan Stowell		
*Charles Malcolm Sturkey, Jr.		
Edward Bruce Tilley	Bahama	
William Keith Whitson, Jr.	Asheville	
George Higgins Wilson		
Ralph Wiggins Wrenn		
Edward Michael Yacko	Bridgeport, Conn.	
BACHELOR OF CIVIL ENGINEERING		
William Old Buys	Washington	
*Joseph Newton Farlow	Greenshoro	
Walter Bascomb Jones	Haw River	
Milton Jacob Kluttz, Jr.	Ralaigh	
Whitmell Baker Small	Washington	
BACHELOR OF CIVIL ENGINEERING, CON		
*Millard Samuel Hayworth	Asheboro	
Richard Sylvester Payne	Hertford	
William Emite Viverette	Sharpsburg	
Rex Hunter Wheatley	Wilmington	
*Glenn Edward Yount	Newton	

<sup>\*</sup> Honors. \*\* High Honors.

# BACHELOR OF CIVIL ENGINEERING, SANITARY OPTION Robert Bailey Bartlett Swannanoa

#### BACHELOR OF ELECTRICAL ENGINEERING

Enoughout of Edecitical Engl.	NEERING
**Ernest James Angelo, Jr.	Winston-Salem
Robert Stuart Blackwood	South Portland, Me.
*Leslie Clifford Brooks	Bryson City
*John Burns Bullock	Henderson
**John Franklin Gilmore	Oxford
Junius Holt Harden	Graham
Joseph Virgil Henderson, Jr.	Monroe
Paul Marcus Johnson, Jr.	Greensboro
Maywood Outland Lawrence, Jr.	Portsmouth, Va.
John Clegg Lockhart, Jr.	Raleigh
Dan Hugh McLean	Bladenboro
Richard Norwood Newsom	La Grange
Henry Rothrock Nooe, Jr.	Pittshoro
William Dean Pennington	Nathan's Creek
Ross Herbert Reynolds, Jr.	Raleigh
Robert Scott Runnion, Jr.	Raleigh
Asbury Hilliard Sallenger	Florence S C
James Robert Shearon	Bunn
*Charlton Henry Storey, Jr.	Wilmington
Leroy Smith Taylor	Greenville
*Wilbur Newton Taylor	Jonesboro
*Mallie Curtiss Todd	Wendell
Henry Page Wilder	Aberdeen
Millard William Woodruff	Roselle Park N J
Merton Merrill York	Boothbay Harbor, Me.

# BACHELOR OF INDUSTRIAL ENGINEERING

Lawrence Morton Brown	Raleigh
Jereman wayland Cox	Raleigh
Rodolfo A. Diaz	Santurce, Puerto Rico
Elmer Pearce Fleming, Jr.	Asheville
William Blaylock Granger	Greensboro
Bruce Riley Knott	Wondall
Edwin Bentley Owen, Jr.	Raleigh
Isaac William Thorn	Rahway, N. J.
Edgar John Wicker	Raleigh

# BACHELOR OF MECHANICAL ENGINEERING

William Oscar Baucom, JrSouth	Norfolk	V۹
Grady Justice Bell, Jr.	7	*11
drady bubblec Dell, 91	Green	ville

<sup>\*</sup> Honors. \*\* High Honors.

Richard Miller Bloodgood	Beaufort
Mark Hutchens Crawford	Wilson
Walter Byrum Freeman	Charlotte
Charles Jonathan Gray	Wilmington
James Bernard Lasley	Greensboro
Charles Newberry Moore	Washington
James Satterfield Newbold	Raleigh
Edgar Byron Nichols, Jr.	Moorestown, N. J.
Sidney Dawson Rogers	Wilmington
BACHELOR OF MECHANICAL ENGINEER	
BACHELOR OF MECHANICAL ENGINEER *Frank Thomas Abbott, Jr	RING, AERONAUTICAL OPTION Raleigh
BACHELOR OF MECHANICAL ENGINEER *Frank Thomas Abbott, Jr. Edward Bartfield	RING, AERONAUTICAL OPTION Raleigh Brooklyn, N. Y.
BACHELOR OF MECHANICAL ENGINEER *Frank Thomas Abbott, Jr. Edward Bartfield James Arthur Boykin, Jr.	RING, AERONAUTICAL OPTION Raleigh Brooklyn, N. Y. Columbia, S. C.
*Frank Thomas Abbott, Jr.  Edward Bartfield James Arthur Boykin, Jr.  William Joseph Dusty	RING, AERONAUTICAL OPTION Raleigh Brooklyn, N. Y. Columbia, S. C. Waterville, Me.
*Frank Thomas Abbott, Jr.  Edward Bartfield James Arthur Boykin, Jr.  William Joseph Dusty	RING, AERONAUTICAL OPTION Raleigh Brooklyn, N. Y. Columbia, S. C. Waterville, Me.
*Frank Thomas Abbott, Jr.  Edward Bartfield James Arthur Boykin, Jr.  William Joseph Dusty Charles Joseph Fleming, Jr.  Mellor Alfred Gill	RING, AERONAUTICAL OPTION  Raleigh  Brooklyn, N. Y.  Columbia, S. C.  Waterville, Me.  Henderson  Hawthorne, N. J.
BACHELOR OF MECHANICAL ENGINEER *Frank Thomas Abbott, Jr. Edward Bartfield James Arthur Boykin, Jr. William Joseph Dusty Charles Joseph Fleming, Jr. Mellor Alfred Gill *Sterling Charles Holmes	RING, AERONAUTICAL OPTION  Raleigh  Brooklyn, N. Y.  Columbia, S. C.  Waterville, Me.  Henderson  Hawthorne, N. J.  Cambridge, N. Y.
*Frank Thomas Abbott, Jr.  Edward Bartfield James Arthur Boykin, Jr.  William Joseph Dusty Charles Joseph Fleming, Jr.  Mellor Alfred Gill  *Sterling Charles Holmes *Robert Alexander Loos	RING, AERONAUTICAL OPTION  Raleigh  Brooklyn, N. Y.  Columbia, S. C.  Waterville, Me.  Henderson  Hawthorne, N. J.  Cambridge, N. Y.  Haddon Heights, N. J.
BACHELOR OF MECHANICAL ENGINEER *Frank Thomas Abbott, Jr. Edward Bartfield James Arthur Boykin, Jr. William Joseph Dusty Charles Joseph Fleming, Jr. Mellor Alfred Gill *Sterling Charles Holmes	RING, AERONAUTICAL OPTION  Raleigh  Brooklyn, N. Y.  Columbia, S. C.  Waterville, Me.  Henderson  Hawthorne, N. J.  Cambridge, N. Y.  Haddon Heights, N. J.

#### SCHOOL OF SCIENCE AND BUSINESS

James Thomas Power High Shoals

Newton

St. Pauls

James Lore Murray

David Ruffin Powers

(Degree earned prior to June, 1939)

#### BACHELOR OF SCIENCE

#### IN INDUSTRIAL MANAGEMENT

†Carroll Gwinn Conrad	Greensboro
John Lucius McLean, Jr.	Raleigh

#### SCHOOL OF TEXTILES

#### BACHELOR OF SCIENCE

#### IN TEXTILE CHEMISTRY AND DYEING

**William Lester Carter	Franklinville
Eugene Patrick Henley	Dankan
Clyde Thomas Moore	Rutherfordton
*Harold Nass	New York, N. Y.
Abner Durham Potter	Barium Springs

<sup>\*</sup> Honors.

<sup>\*\*</sup> High Honors. † As of June, 1938.

## IN TEXTILE MANAGEMENT

John Stevens Aiken	Asheville
*Emilio Arizpe de la Maza	Monterey. Mexico
Peter Bruinooge	Hasbrouck Heights, N. J.
Edward A. Fitzmaurice	Mohall, N. Dakota
Hugh Johnson, Jr.	Raleigh
Robert Schmidt Lake	Manhassett N. Y
David Ray McEachern, Jr.	Concord
Samuel Reuben May, Jr.	Spring Hope
Stephen Seymour Sailer	E. Orange, N. J.
**Charles Widlitz	Rockville Center, N. Y.
Paul Emerson Wood	Hawthorne, N. J.

## IN TEXTILE MANUFACTURING

Herbert Julian Brown, Jr.	43 3.
James Russell Burcham	Anoskie
Thomas Willard Cates	Elkin
John Wesley Channan	Wendell
John Wesley Chapman	Dover
Eugene Allen Dees	Concord
**Walter Lee Fanning	Shelby
*George Verner Hanna, Jr.	Mooresville
Ernest Vincent Helms	Charlotte
John William Irving, Jr.	Wentworth
Edward Suther Johnson	Kannapolis
James Vernon Kirkman	Durham
Albert Reid Lambert	Greensboro
Albert Glenn Lancaster	Henderson
Edward Jones Lancaster, Jr.	Winston-Salem
Richard MacKenzie	Wilmington
*Horace Robert McSwain	Shelby
Offie William Mann	Albemarle
Percy Durant Merritt	Rose Hill
Alonzo Maddison Moore, Jr.	Raleigh
Gilmer Hughes Newbern	Powells Point
Burleigh Lee Overbey	Reidsville
Oscar Franklin Peatross	Raleigh
Robert Marshall Pully	Woodsdale
John Fulton Redding	Asheboro
*Charles Hoge Reynolds	Gate City, Va
Isaac Rhodes Robinson	Southport
Morris Barnett Sokoloff	Raleigh
Percy Clifton Stott, Jr.	Wendell
Albert Theodore Strupler	Favetteville
Charles Wayland Stuart, Jr.	Winston-Salem

<sup>\*</sup> Honors. \*\* High Honors.

Roland Arrington Taylor	Whitakers
**Robert Beam Wood	Gastonia
IN WEAVING AND DESIGNING	
Moses Jesse Barber	Charlotte
Charles Franklin Barringer, Jr.	
*George Preston Boswell	Burlington
James Burnett Hines	Winston-Salem
Richard Vardry McPhail	Hamlet
Marvin Hawley Mason	Mebane
Bernard Joseph Musso	Walsenburg, Colo.
Sidney Carlyle Summey	Shelby
James Alfred Towery	Concord

#### ADVANCED DEGREES

#### MASTER OF SCIENCE

IN AGRICULTURAL CHEMISTRY Robert Edward Clegg V. Bradshaw Holland Martin Arthur Moseley, Jr. Winton Blair Rankin	Norfolk, Va. Cowpens, S. C.
IN AGRICULTURAL ECONOMICS Thomas Lenoir Stuart	Mebane
IN ANIMAL PRODUCTION  John Stephen Hollamon	Farmville
IN ENTOMOLOGY Clarence Howell Hill	Yadkinville
William Luther White	Raleigh
IN PLANT PATHOLOGY George Robertson Fowler Howard Reed Garris	
IN RURAL SOCIOLOGY Lois Sallie Silver	Raleigh

<sup>\*</sup> Honors.
\*\* High Honors.

## In Soils

Jesse Elson Ross Wilson Leamer	
In Wildlife Conservation and Mana	GEMENT
James Charles Darsie	Raleigh
In Agricultural Education	
William Beaufort Callihan	Wendell
In Industrial Arts	
Frederick George Walsh	Waverly N V
Frederick George Walsh	
In Ceramic Engineering	
Joseph Carol Richmond	Alfred N V
Voccpii Caror Monada	
In Chemical Engineering	
Robert Perry Harris	Raleigh
IN GEOLOGICAL ENGINEERING	
D'Arcy Roscoe George	White Plains, N. Y.
In Textiles	
	<b>91</b> 1 . 91 .
Shin Yuan Daun	_
Kwoh Chang Li Henry Bettis Malone, Jr.	
•	
MASTER OF CHEMICAL ENGINEERS	NG
Rupert Leslie Cox	Richmond, Va.
Thomas Eugene Ramsay	
Ephriam Lee Sawyer	Sanford
Raymond Worth Stephenson	
Joseph Ernest Yates	Stony Point
MASTER OF CIVIL ENGINEERING	
Dan Lipschutz	Belle Harbor N V
Robert Ivey Simkins	
-	

MASTER OF ELECTRICAL ENGINEERING		
Raymond Charles Snook Roselle, N. J.		
MASTER OF MECHANICAL ENGINEERING		
Pierce Toney Angell Richmond, Va.		
PROFESSIONAL DEGREES		
CHEMICAL ENGINEER		
Francis Tripp New Bedford, Mass.		
CIVIL ENGINEER		
Duncan Thomas Memory Chattanooga, Tenn.		
HONORARY DEGREES		
DOCTOR OF AGRICULTURE		
Junius Sidney Cates Arlington, Va		
DOCTOR OF SCIENCE		
Stephen Cole Bruner Santiago de las Vegas, Cuba Adrianus J. L. Moritz Enka		
DOCTOR OF TEXTILE SCIENCE		
Benjamin Brown Gossett Charlotte		

#### MEDALS AND PRIZES-SCHOLARSHIP DAY, 1939

ALPHA ZETA SCHOLARSHIP CUP J. D. Jones, Sophomore in Agriculture, Brevard, N. C.

TAU BETA PI AWARDS

W. F. Morris, Jr., Sophomore in Mechanical Engineering, Raleigh, N. C. Edward L. Bryant, Freshman in Chemical Engineering, Wilmington, N. C.

ASSOCIATED GENERAL CONTRACTORS' AWARD
M. S. Hayworth, Senior in Civil Engineering, Construction Option, Asheboro,
N. C.

J. C. STEELE SCHOLARSHIP CUP H. H. Thomas, Sophomore in Ceramic Engineering, Hyde, Md.

MOLAND-DRYSDALE SCHOLARSHIP CUP E. G. Gibbs, Freshman in Ceramic Engineering, Morehead City, N. C.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS AWARD T. M. Kolarik, Junior, Pittsburgh, Pa.

NATIONAL ASSOCIATION OF TEXTILE MANUFACTURERS' MEDAL Walter Lee Fanning, Senior, Shelby, N. C.

SIGMA TAU SIGMA (TEXTILE) AWARD William L. Carter, Senior, Franklinville, N. C.

ORDER OF 30 AND 3 AWARD

Rodger M. Avery, Jr., Freshman in Chemical Engineering, Winston-Salem, N. C.

Joel H. Bower, Freshman in M. Engr., Aeronautical Option, Lexington, N. C.

State College Woman's Club Award Miss Sarah Frances Dees, Junior in Landscape Architecture, Greensboro, N. C.

> Interfraternity Council Scholarship Cup Alpha Gamma Rho Fraternity

> > ALUMNI ATHLETIC TROPHY

J. B. Hines, Senior in Weaving and Designing, Winston-Salem, N. C.

Mu Beta Psi (Musical) Award

R. L. Huffman, Jr., Senior in Chemical Engineering, Brookfield, Mo.

PHI KAPPA PHI SCHOLARSHIP MEDALS

Senior: W. L. Carter, Textile Chemistry and Dyeing, Franklinville, N. C.
 Junior: H. M. Taylor, Mechanical Engineering, High Point, N. C.
 Sophomore: J. D. Jones, Agriculture, Brevard, N. C.

KAPPA PHI KAPPA (EDUCATION) AWARD W. J. Reams, Sophomore, Apex, N. C.

ELDER P. D. GOLD CITIZENSHIP MEDAL Horace R. McSwain, Senior in Textile Manufacturing, Shelby, N. C.

GOETHE MUSEUM AWARD IN GERMAN Harold Nass, Senior in Textile Chemistry and Dyeing, New York, N. Y.

SOUTHEASTERN DEBATE CHAMPIONSHIP

Howard B. Bell, Sophomore in Chemical Engineering, Winston-Salem, N. C. Cary K. Watkins, Junior in Animal Production, Blanche, N. C.

George H. Lippard, Freshman in Ceramic Engineering, Winston-Salem, N. C. Fred H. Price, Jr., Junior in Agricultural Economics, Shelby, N. C.

DIXIE CHAMPIONSHIP IN ARGUMENTATION
George H. Lippard, Freshman in Ceramic Engineering, Winston-Salem, N. C.

APPALACHIAN MOUNTAIN CHAMPIONSHIP IN EXTEMPORANEOUS SPEAKING George H. Lippard, Freshman in Ceramic Engineering, Winston-Salem, N. C

GRAND EASTERN CHAMPIONSHIP IN RADIO BROADCASTING AND IN PROBLEM SOLVING

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Julian Traine Menarassa	
IN FIELD CROPS AND PLAN	T BREEDING
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In Forestry	
	Combridge N V
George Winfield Arnott	Washington
TT Champbill Dangery	
Harman Walton Dlummer Jr	
Edwin Mims Walker	Ivaleigii
In Agricultural Ed	UCATION
<del></del>	
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Johnnie Murrell King	Brevard
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William Wilson McClure  David Charles Miller	Warsaw
David Charles Miller	Brevard
Edward Jordan Whitmire, Jr.	Gates
Daniel Arthur Willey, Jr.  John Marvin Worrell	Gates
John Marvin Worrell	
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Bachelor of So	CIENCE
In Textile Chemistr	y and Dyeing
Reginald W. Biggers  James Albert Holder, Jr.	Hickory Asheboro
In Textile Man	AGEMENT
John Colin Shaw	Kerr
In Textile Manu	FACTURING
Dawson Francis Bowerman Corbett Alexander Clovis Hattaway, Jr. Charles Selby Jones	Greensboro
Samuel Pinckney Stowe, Jr. Charles Willard Swan	
IN WEAVING AND	Designing
Harry Lewis Cannon	Roanoke Rapids

# Fiftieth Anniversary Celebration

# North Carolina State College of Agriculture and Engineering

of the University of North Carolina



Pullen Hall
Eleven G'clock
Tuesday, October Third
Aineteen Hundred and Thirty-nine

# Program

#### MUSIC

PRESIDING:

John William Harrelson

Dean of Administration, State College

INVOCATION:

THE RIGHT REVEREND EDWIN ANDERSON PENICK Bishop, The Diocese of North Carolina

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ADDRESS:

THE HONORABLE OLIVER MAX GARDNER Former Governor of North Carolina

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Dr. ZENO PAYNE METCALF, Chief Marshal

PRESENTATION OF HONORARY DEGREE OF DOCTOR OF ENGINEERING TO WALLACE CARL RIDDICK

BENEDICTION:

MUSIC

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# Senior Colleges

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Presbyterian Junior College	1929	President Louis C. LaMotte



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NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING OF THE UNIVERSITY OF NORTH CAROLINA

1939-1940

STATE COLLEGE STATION RALEIGH

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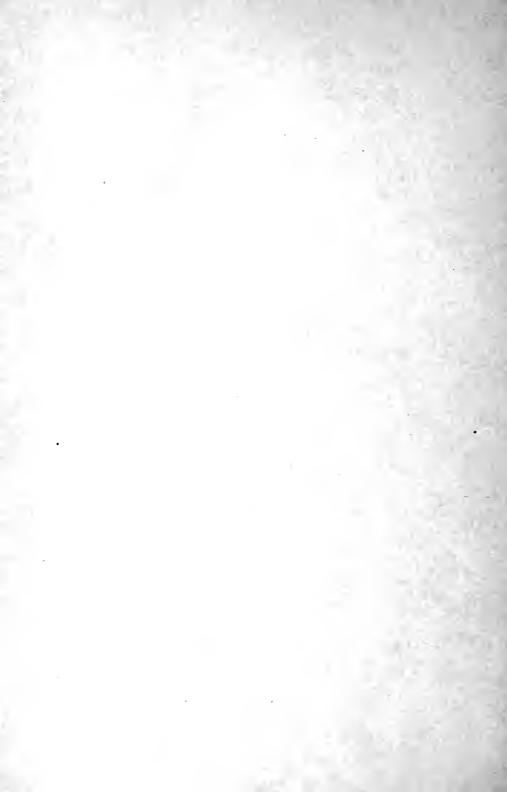
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Counselor	R	oom
Clevenger, W. L.	208	4th
Regan, P. R.	201	5th
Durham, E. E.	201	6th
Hunter, C. A.	125	7th
Mann, S. N.	223	7th
Frazier, T. R.	309	7th
Rennie, J. W.	13	8th
Sabol, F. P.	126	8th
O'Brian, Joseph	220	8th
Kirkland, C. W., Jr.	310	8th
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Reeves, T. L.	232	1911
Young, E. O.	340	1911
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Means, H. D.	217	"A"
Gregg, P. P.		
Thompson, W. F.	122	"C"
Ireland, C. F.	217	"C"
Rowland, W. T.		
Fowles, C. V.	23	South
Langdon, J. L.		
Jackson, Cecil		
Carey, R. E.		
Johnson, T. C.	103	Watauga
Randolph, Hal	205	Watauga
Mid-lain T		_

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Technician	4732
Student Government	8738
Fieldhouse	6934
Dining Hall	2-0243

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Alpha Lambda Tau	(Nat'l) 10 Enterprise Street	7016
Delta Sigma Phi	(Nat'l) 2004 Hillsboro Street	2-1873
Kappa Alpha	(Nat'l) 8. Maiden Lane	2-0737
Kappa Sigma	(Nat'l) 21 Enterprise Street	2-0232
Lambda Chi Alpha	(Nat'l) 2407 Clark Avenue	8218
Phi Kappa Tau	(Nat'l) 2405 Clark Avenue	7422
Pi Kappa Alpha	(Nat'l) 1922 Hillsboro Street	5022
	(Nat'l)1720 Hillsboro Street	
Sigma Alpha Mu	(Nat'l) 2304 Clark Avenue	7638
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Addington, B. A.         Fr. Ag.         1 8th         Franklin, N. C.           Aiken, B. N.         Fr. M. E.         305 South, Box 3569         Fuquay Springs, N. C.           Aldridge, J. W.         Jr. Tex. Mgt.         103 Chamberlain St.         Hamlet, N. C.           Allen, Blake H.         Fr. Ag. Ed.         103 Th, Box 3609         Asheboro, N. C.           Allen, Blake H.         Fr. Ag. Ed.         103 Th, Box 3303         Matthews, N. C.           Allen, Howard N.         Fr. Tex. Mfg.         101 9th         Wadesboro, N. C.           Allen, John, Jr.         Fr. For.         303 9th.         Sethel, N. C.           Allen, John, Jr.         Fr. M. E.         2112 Woodland Ave.         Raleigh, N. C.           Allen, J. Ray.         So. Ag. Ed.         322 South, Box 3586         Marshville, N. C.           Allen, Melville H.         Fr. Tex. W. & D.         Route 4.         Raleigh, N. C.           Allen, R. Me, Jr.         Fr. Ch. E.         116 Hawthorne Road         Raleigh, N. C.           Allen, T. W., Jr.         Fr. Ag.         318 7th, Box 3384         Creedmoor, N. C.           Alles, G. J.         Fr. C. E.         331 8th.         Wilmington, N. C.           Alles, G. J.         Fr. C. E.         331 8th.         Wilmington, N. C.	Adams, W. Jarvis	Şr. Çh. E	115 Woodburn Road	Asheville, N. C.
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Aldridge, J. W. Jr. Tex. Mgt. 103 Chamberlain St. Hamlet, N. C. Allen, Blake H. Fr. Ag. Ed. 103 7th, Box 3609. Asheboro, N. C. Allen, F. C. Fr. Tex. Mfg. 101 9th. Wadesboro, N. C. Allen, F. C. Fr. Tex. Mfg. 101 9th. Wadesboro, N. C. Allen, F. C. Fr. Tex. Mfg. 101 9th. Wadesboro, N. C. Allen, Howard N. Fr. Tex. Mfg. 1 Fieldhouse. Kannapolis, N. C. Allen, John, Jr. Fr. For. 303 9th. Bethel, N. C. Allen, J. A. Fr. M. E. 2112 Woodland Ave. Raleigh, N. C. Allen, J. A. Fr. M. E. 2112 Woodland Ave. Raleigh, N. C. Allen, Melville H. Fr. Tex. W. & D. Route 4. Raleigh, N. C. Allen, Melville H. Fr. Tex. W. & D. Route 4. Raleigh, N. C. Allen, R. Mc., Jr. Fr. Ch. E. 116 Hawthorne Road Raleigh, N. C. Allen, R. R. Fr. Ag. 300 E. Whitaker Mill. Council, N. C. Allen, T. W., Jr. Fr. Ag. 318 7th, Box 3384. Creedmoor, N. C. Alles, G. J. Fr. C. F. S. 318 8th. Willington, N. C. Allston, W. F. Grad, Pl. Path. 406 Brooks Ave. Pitman, N. J. Althaus, K. G., Jr. Fr. Chem. E. 1515 Scales Street. Raleigh, N. C. Altman, L. B., Jr. Sr. Ag. Engr. 1210 Cowper Drive. Raleigh, N. C. Altman, L. B., Jr. Sr. Ag. Engr. 1210 Cowper Drive. Raleigh, N. C. Anderson, L. B. Fr. Gen. Engr. 309 8th. Asheville, N. C. Anderson, U. B. Fr. Gen. Engr. 309 8th. Asheville, N. C. Anderson, U. B. Fr. Gen. Engr. 309 8th. Asheville, N. C. Anderson, U. B. Fr. Gen. Engr. 309 8th. Asheville, N. C. Andrews, Carlton A. Fr. M. E. 101 8th, Box 5241. Durham, N. C. Andrews, Carlton A. Fr. M. E. 101 8th, Box 5241. Durham, N. C. Andrews, Carlton A. Fr. M. E. 101 8th, Box 5358. Lumberton, N. C. Andrews, Horace P. So. Ag. Chem. 206 South, Box 3538. Lumberton, N. C. Andrews, Horace P. So. Ag. Chem. 206 South, Box 3538. Lumberton, N. C. Andrews, Horace P. So. Ag. Chem. 206 South, Box 3538. Lumberton, N. C. Andrews, J. W. G. Fr. Gen. Engr. 309 Burton St. Gereensboro, N. C. Andrews, J. W. S. M. E. 2405 Clark Ave. Roseboro, N. C. Andrews, J. W. S. M. E. 2405 Clark Ave. Roseboro, N. C. Andrews, J. W. S. S. Fr. Gen. Engr. 309 Burton St. Gereensboro, N. C. Andrews, R. Clark. Jr. M. E. 226	Addington, B. A	Fr. Ag	_1 8th	Franklin, N. C.
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Ayers F W Iz	Fr For	_206 9th	Washington N. C.
-			
Baggert D. D.	Fr. As.	317 7th, Box 3383 _106 Horne Street _220 C	Dunn, N. C.
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Ball, T. N.	Fr. M. E	_114 N. Bloodworth St	Raleigh, N. C.
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Dallard, L. H.	Cond An Chan	26 8th	Rateshura S C
Dallentine, J. D., 11	Grau. ng. Chein	_327 A, Box 5507	Rurers N C
Bankaygz, A. A.	So Geol F	_2202 Hillsboro St	Greenshoro N C
Dealer I C	E- 11 F	11 Fieldhouse	Hamlet \ (
Rother W V	Fr Ac Fd	314 7th Box 3380	Ammon, Va.
Barbdoll I N	M & O W -5	314 7th, Box 3380	Hagerstown, Md.
Racher W 4	Fr. Ar. Fd.	308 5th, Box 3252	Fuguay Springs, N. C.
Brance C B	4- ( h F	IIIII Wate Forest Ko	K 21610 n. N. C.
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Beaver, Y. I	50. M. E	David 1 Wale Forcet Pd	Dalajah N. C.
Debo, C. W	rr. Cn. E	Route 1, Wake Forest Rd 2706 Vanderbilt Ave	Thomosville N C
Posses C V	Sc. Mr. E.	124½ Hillcrest Rd	Paleigh N C
Recry C H Ir	Jo, Ag. Eligi	213 A	Wilmington N C
Beag C F H	Sr. Tev. C. & D.	114 Wat., Box 3014	Charlotte N C
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Rendigo E I	Sr Tev Mot	125 Woodburn Road	Greenshoro, N. C.
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Bennett, M. W., Jr	Fr. M. E	Route 5	Raleigh, N. C.
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Riccorn P T	50. Cer. E	1301 Hillsboro St	Sanford Fla
Bing A I	or. 1ex. Mgt C. M F	1301 Hillsboro St	Hickory N C
Richan R A Ir	Fr M F	310 9th	Greenshoro N C
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Blackwelder, S. D.	So. E. E	Withdrew Sept. 22	Davidson, N. C.
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Rlue W H	So. I ex. Mig	314 South, Box 3578 229 1911, Box 3769	Carthage, N. C.
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Bonner, A. M., Jr. Fr. Ag.   559 New Bern Ave.   Raleigh, N. C.   Booker, R. M. Fr. M. E.   320 E. Hargett St.   Raleigh, N. C.   Boone, D. L. Fr. M. E.   325 7th, Box 3557   Rich Square, N. C.   Boone, D. L. Fr. M. E.   325 7th, Box 3557   Rich Square, N. C.   Boone, Roy H.   So. Cer. E.   316 South, Box 3550   Spruce Pine, N. C.   Boone, Roy H.   So. Cer. E.   316 South, Box 3550   Spruce Pine, N. C.   Bost, C. M.   So. Cer. E.   316 South, Box 3550   Spruce Pine, N. C.   Bost, C. M.   So. Cer. E.   316 South, Box 3550   Spruce Pine, N. C.   Boswell, A. W.   Fr. M. E.   202 sth   Bailey, N. C.   Bowsell, A. W.   Fr. M. E.   202 sth   Bailey, N. C.   Bowsell, A. W.   Fr. M. E.   202 sth   Bailey, N. C.   Bowsell, A. W.   Fr. M. E.   2405 Clark Avenue.   Charlotte, N. C.   Bowers, E. R.   So. Ch. E.   2405 Clark Avenue.   Charlotte, N. C.   Bowers, E. S.   Sr. Ch. E.   2407 Clark Avenue.   Jackson, N. C.   Bowers, F. J.   So. Ag.   114 South, Box 3514   Jackson, N. C.   Bowers, F. J.   So. Ag.   114 South, Box 3514   Jackson, N. C.   Bowers, F. J.   So. Ag.   114 South, Box 3514   Jackson, N. C.   Bowles, J. P.   Fr. Ag. Engr.   2408 Straford Ave.   Hiddenite, N. C.   Bowles, J. P.   Fr. Ag. Engr.   2408 Straford Ave.   Hiddenite, N. C.   Bowles, J. P.   Fr. Ag.   235 South, Box 3567   Hiddenite, N. C.   Bowce, R. D.   Fr. Ag.   235 Sth   Woodland, N. C.   Boyce, R. D.   Fr. Ag.   235 Sth   Woodland, N. C.   Boyce, R. D.   Fr. Ag.   235 Sth   Woodland, N. C.   Boyette, Ray.   Jr. Ind. E.   126 South, Box 3576   Jackson, N. C.   Bradley, R. T.   Jr. F. C. & Pl. B.   114 A   Burgaw, N. C.   Bradshaw, T. I.   Fr. Gen. Engr.   318 Sth   Burgaw, N. C.   Bradshaw, T. I.   Fr. C. & Pl. B.   114 A   Burgaw, N. C.   Bradshaw, T. I.   Fr. C. & Pl. B.   114 A   Burgaw, N. C.   Bradshaw, T. I.   Fr. C. & Pl. B.   114 A   Burgaw, N. C.   Bradshaw, T. I.   Fr. C. & Pl. B.   114 A   Burgaw, N. C.   Bradshaw, T. I.   Fr. C. & Pl. B.   125 Sth   Burgaw, N. C.   Branker, L. B.   Fr. M. E.   325 Sth   Burgaw, N. C.   Branker, L	Boltrek, Peter, Jr	r. M. E.	Fieldhouse	Arverne, N. Y.
Boone, D. L.   Fr. M. E.   215 7th. Box 5357   Rich Square, N. C. Boone, Roy H.   So. Cer. E.   316 South, Box 3527   Clinton, N. C. Boone, Roy H.   So. Cer. E.   316 South, Box 3580   Spruce Pine, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Charlotte, N. C. Bowen, F. R.   So. Ch. E.   2405 Clark Avenue.   Charlotte, N. C. Bowen, F. R.   So. Ch. E.   2405 Clark Avenue.   Charlotte, N. C. Bowen, F. R.   So. Ch. E.   2405 Clark Avenue.   Jackson, N. C. Bowers, F. J.   So. Ag.   I14 South, Box 3512   Lexingron, N. C. Bowers, F. J.   So. Ag.   I14 South, Box 3514   Jackson, N. C. Bowers, F. J.   So. Ag.   I14 South, Box 3514   Jackson, N. C. Bowers, W. H.   Fr. Ag.   219 South, Box 3514   Jackson, N. C. Bowers, W. H.   Fr. Ag.   219 South, Box 3561   Hiddenite, N. C. Bowles, W. F.   Ir. Ag.   229 South, Box 3567   Hiddenite, N. C. Bowers, W. F.   Ir. Ag.   229 South, Box 3567   Hickory, N. C. Boyee, M. B.   Fr. Ch. E.   305 7th, Box 3574   Albemarle, N. C. Boyee, M. B.   Fr. Ch. E.   305 7th, Box 3576   Albemarle, N. C. Boyee, M. D.   Fr. Ag.   25 8th   Soylan, W. M.   Fr. M. E.   201 A.   New Bern, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Brake, P. M.   4r. Fr. Fo.   1825 5t. Marys 5t.   Washington, N. C. Brake, P. H.   Fr. Ag.   331 7th, Box 3357   Rocky Mount, N. C. Brake, P. H.   Fr. Ag.   331 7th, Box 3357   Rocky Mount, N. C. Brake, P. H.   Fr. Ag.   331 7th, Box 3357   Rocky Mount, N. C. Brancon, H. W. Jr.   5r. C. E.	Boney, L. N., Jr.	Sr. Arch. E	103 Chamberlain St	Wilmington, N. C.
Boone, D. L.   Fr. M. E.   215 7th. Box 5357   Rich Square, N. C. Boone, Roy H.   So. Cer. E.   316 South, Box 3527   Clinton, N. C. Boone, Roy H.   So. Cer. E.   316 South, Box 3580   Spruce Pine, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Charlotte, N. C. Bowen, F. R.   So. Ch. E.   2405 Clark Avenue.   Charlotte, N. C. Bowen, F. R.   So. Ch. E.   2405 Clark Avenue.   Charlotte, N. C. Bowen, F. R.   So. Ch. E.   2405 Clark Avenue.   Jackson, N. C. Bowers, F. J.   So. Ag.   I14 South, Box 3512   Lexingron, N. C. Bowers, F. J.   So. Ag.   I14 South, Box 3514   Jackson, N. C. Bowers, F. J.   So. Ag.   I14 South, Box 3514   Jackson, N. C. Bowers, W. H.   Fr. Ag.   219 South, Box 3514   Jackson, N. C. Bowers, W. H.   Fr. Ag.   219 South, Box 3561   Hiddenite, N. C. Bowles, W. F.   Ir. Ag.   229 South, Box 3567   Hiddenite, N. C. Bowers, W. F.   Ir. Ag.   229 South, Box 3567   Hickory, N. C. Boyee, M. B.   Fr. Ch. E.   305 7th, Box 3574   Albemarle, N. C. Boyee, M. B.   Fr. Ch. E.   305 7th, Box 3576   Albemarle, N. C. Boyee, M. D.   Fr. Ag.   25 8th   Soylan, W. M.   Fr. M. E.   201 A.   New Bern, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3567   Lackson, N. C. Brake, P. M.   4r. Fr. Fo.   1825 5t. Marys 5t.   Washington, N. C. Brake, P. H.   Fr. Ag.   331 7th, Box 3357   Rocky Mount, N. C. Brake, P. H.   Fr. Ag.   331 7th, Box 3357   Rocky Mount, N. C. Brake, P. H.   Fr. Ag.   331 7th, Box 3357   Rocky Mount, N. C. Brancon, H. W. Jr.   5r. C. E.	Booker P M	L. M. F		
Boone, J. B.   L. S. Ag. Ed.   209 toth. Box 3590.   Spruce Pine, N. C.     Boone, Roy H.   So. Cer. E.   316 South. Box 3590.   Spruce Pine, N. C.     Bossvell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C.     Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C.     Bowen, J. H.   Jr.   Sr. C. F.   2005 Hillsboro St.   Atlanta, Ga.     Bowen, J. H.   Jr.   Sr. C. F.   2005 Hillsboro St.   Atlanta, Ga.     Bowen, J. H.   So. M. E.   352 1911. Box 3512   Lexington, N. C.     Bowers, E. S.   Sr. Ch. E.   2407 Clark Avenue   Jackson, N. C.     Bowers, W. H.   Fr. Ag.   203 10th. Box 3514   Jackson, N. C.     Bowers, W. H.   Fr. Ag.   203 10th. Box 3514   Jackson, N. C.     Bowers, W. H.   Fr. Ag.   203 10th. Box 3514   Jackson, N. C.     Bowles, J. P.   Fr. Ag. Eng.   2408 Strafford Ave.   Hiddenite, N. C.     Bowles, J. P.   Fr. Ag. Eng.   2408 Strafford Ave.   Hiddenite, N. C.     Bowles, W. F.   Jr. Ag. Eng.   2498 Strafford Ave.   Hiddenite, N. C.     Boyete, R. D.   Fr. Ag.   279 South, Box 3561   Hiddenite, N. C.     Boyete, R. D.   Fr. Ag.   279 South, Box 3574   Albermale, N. C.     Boyete, R. D.   Fr. Ag.   279 South, Box 3574   Albermale, N. C.     Boyete, R. Ag.   Jr. Ind. E.   126 South, Box 3565   Hiddenite, N. C.     Boyete, R. Ag.   Jr. Ind. E.   126 South, Box 3566   Hiddenite, N. C.     Boyatte, Ray, Jr. Ind. E.   126 South, Box 3566   Hiddenite, N. C.     Bradley, R. T.   Jr. F. C. S. Pl. B.   114 A   Rocky Mount, N. C.     Bradley, R. T.   Jr. F. C. S. Pl. B.   114 A   Rocky Mount, N. C.     Bradley, R. T.   Jr. F. C. S. Pl. B.   114 A   Rocky Mount, N. C.     Bradley, R. T.   Jr. F. Gen. Engr.   138 Sth.   Burgaw, N. C.     Brads, R. W.   Sr. For.   21 South, Box 3517   Rocky Mount, N. C.     Brake, R. W.   Sr. For.   21 South, Box 3518   Rocky Mount, N. C.     Branco, B.   So. Ag. Ed.   303 4th. Box 319   Yadkinville, N. C.     Brannon, R. E.   Jr. Ch. E.   312 Woodburn Rd   Cover Creek, N. C.     Brannon, R. E.   Jr. Tex. Mfg.   214 South, Box 3520   Asheville, N. C.     Brannon, R. F.   J	Boone II I	Fr M F	225 7th Roy 3357	Pich Course N. C.
Boone, Roy H.   So. Cer. F.   316 South, Bos 3550.   Spruce Pine, N. C. Bosvell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Boswell, A. W.   Fr. M. E.   202 sth.   Bailey, N. C. Ouens, V. Bowen, E. R.   So. Ch. E.   2405 Clark Avenue   Charlotte, N. C. Bowen, I. H.   Sr. C. E.   2005 Hillsboro St.   Adanta, Ga. Bower, J. H.   So. M. E.   332 1911, Box 3812   Lexington, N. C. Bowers, F. I.   So. M. E.   332 1911, Box 3812   Lexington, N. C. Bowers, F. I.   So. M. E.   332 1911, Box 3812   Lexington, N. C. Bowers, F. I.   So. A. E.   114 South, Box 3814   Lexington, N. C. Bowers, W. H.   Fr. Ag.   Eng.   2408 Stafford Ave.   Hiddenite, N. C. Bowers, W. H.   Fr. Ag. Eng.   2408 Stafford Ave.   Hiddenite, N. C. Bowles, W. F.   It. Ag.   229 South, Box 3267   Hiddenite, N. C. Bowles, W. F.   It. Ag.   229 South, Box 3267   Hiddenite, N. C. Boyee, M. B.   Fr. Ch. E.   305 7rh, Box 3267   Hiddenite, N. C. Boyee, M. B.   Fr. Ch. E.   305 7rh, Box 3267   Hiddenite, N. C. Boyee, M. B.   Fr. Ch. E.   305 7rh, Box 3267   Hiddenite, N. C. Boyee, Ray.   It. Ind. E.   126 South, Box 3526   Kenly, N. C. Boyette, Ray.   It. Ind. E.   126 South, Box 3526   Kenly, N. C. Boyette, Ray.   It. Ind. E.   126 South, Box 3526   Kenly, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3767   Jackson, N. C. Bradley, P. A.   5r. Ag. Ed.   227 1911, Box 3767   Jackson, N. C. Bradley, R. T.   It. F. C. & Pl. B. Il. 4.   A.   Roky Mount, N. C. Brake, J. H.   Fr. Ag.   331 7rh, Box 3387   Rocky Mount, N. C. Brake, J. H.   Fr. Ag.   331 7rh, Box 3387   Rocky Mount, N. C. Brake, J. H.   Fr. Ag.   331 7rh, Box 3387   Rocky Mount, N. C. Brake, J. H.   Fr. Ag.   331 7rh, Box 3387   Rocky Mount, N. C. Brake, J. H.   Fr. Ag.   331 7rh, Box 3387   Rocky Mount, N. C. Brane, C. B.   Fr. M. E.   328 sth.   Burgaw, N. C. Drane, C. B.   Fr. M. E.   328 sth.   Box 3290   Asherbin, N. C. Brannon, R. E.   It. Tex. Mig.   224 South, Box 3329   Asherbin, N. C. Brannon, R. E.   It. Tex. Mig.   224 South,	Boone, L. B.	I S Ag Fd	209 6th Box 3257	Clinton N C
Bost, C. M.	Boone, Roy H.	So Cer F	316 South Boy 3580	Spruce Pine N C
Bouseld, C. J. Fr. For. 323 8th Ocean Stillage, N. Y. Bowen, J. H. Jr. 8r. C. E. 2008 Hillsboro 8t. Atlanta, Ga. Bower, J. H. Jr. 8r. C. E. 2008 Hillsboro 8t. Atlanta, Ga. Bower, J. H. 8o. M. E. 332 1911, Box 3812 Lexington, N. C. Bowers, E. S. 5r. Ch. E. 2407 Clark Avenue Jackson, N. C. Bowers, E. S. 5r. Ch. E. 2407 Clark Avenue Jackson, N. C. Bowers, W. H. Fr. Ag. 203 10th. Box 3514 Vorwood, N. C. Bowers, W. H. Fr. Ag. 205 10th. Box 3514 Vorwood, N. C. Bowers, W. H. Fr. Ag. 229 South, Box 3520 Hiddenite, N. C. Bowers, W. F. Jr. Ag. 229 South, Box 3561 Hiddenite, N. C. Bowers, W. F. Jr. Ag. 229 South, Box 3561 Hiddenite, N. C. Bowers, W. F. Jr. Ag. 229 South, Box 3567 Hickory, N. C. Bowers, W. F. Jr. Ag. 229 South, Box 3567 Hickory, N. C. Boyee, R. D. Fr. Ag. 25 8th Woodland, N. C. Boyee, R. D. Fr. Ag. 25 8th Woodland, N. C. Boyee, R. D. Fr. Ag. 25 8th Woodland, N. C. Boyette, Ray. Jr. Ind. E. 126 South, Box 3526 Kenly, N. C. Boylan, W. M. Fr. M. E. 201 A. New Bern, N. C. Bradley, R. T. Jr. F. C. & Pl. B. 114 A. Rocky Mount, N. C. Bradley, R. T. Jr. Fr. Gen. Engr. 318 8th Bragaw, N. C. Bragaw, William Fr. For. 218 St. Marys 8t. Washington, N. C. Brake, J. H. Fr. Ag. 321 7th, Box 3587 Rocky Mount, N. C. Brake, J. H. Fr. Ag. 321 7th, Box 3587 Rocky Mount, N. C. Brame, C. B. Fr. M. E. 323 8th Lucama, N. C. Parancon, J. W. Jr. M. E. 323 8th Lucama, N. C. Bramett, J. E. Jr. Ch. E. 132 Woodburn Rd. Cove Creek, N. C. Cove Creek, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametron, N. C. Brannon, G. M., Jr. Jr. Tev. Mgt. 10 Enterprise St. Galexy, N. C. Brannon, R. E. Jr. Tev. Mgt. 10 Enterprise St. Galexy, N. C. Brannon, R. E. Jr. Tev. M	Bost, C. M	So. Ag. Ed.	Maiden Lane	Rockwell, N. C.
Bouseld, C. J. Fr. For. 323 8th. Ouens Village, N. Y. Bowen, J. H. Jr. 8r. C. E. 2008 Hillsboro 8t. Arlanta, Ga. Bower, J. H. Jr. 8r. C. E. 2008 Hillsboro 8t. Arlanta, Ga. Bower, J. H. So. M. E. 332 1911, Box 3812 Lexington, N. C. Bowers, E. S. Sr. Ch. E. 2407 Clark Avenue Jackson, N. C. Bowers, E. S. Sr. Ch. E. 2407 Clark Avenue Jackson, N. C. Bowers, W. H. Fr. Ag. 203 10rh. Box 3514 Jackson, N. C. Bowers, W. H. Fr. Ag. 205 10rh. Box 3514 Jackson, N. C. Bowers, W. H. Fr. Ag. 205 10rh. Box 3514 Jackson, N. C. Bowers, W. H. Fr. Ag. 229 South, Box 3561 Hiddenite, N. C. Bowers, W. F. Jr. Ag. 229 South, Box 3561 Hiddenite, N. C. Bowers, W. F. Jr. Ag. 229 South, Box 3561 Hiddenite, N. C. Bowman, H. L. So. Ch. E. 307 6rh, Box 3267 Hickory, N. C. Boyee, R. D. Fr. Ag. 25 8th. Woodland, N. C. Boyee, R. D. Fr. Ag. 25 8th. Woodland, N. C. Boyee, R. D. Fr. Ag. 25 8th. Woodland, N. C. Boyette, Ray. Jr. Ind. E. 126 South, Box 3574 Wew Bern, N. C. Bradley, R. T. Jr. F. C. & Pl. B. 114 A. New Bern, N. C. Bradley, R. T. Jr. F. C. & Pl. B. 114 A. Rocky Mount, N. C. Bradley, R. T. Jr. F. G. Engr. 318 8th. Burgaw, N. C. Bragaw, William Fr. For. 1835 8th. Burgaw, N. C. Brake, J. H. Fr. Ag. 321 7th, Box 3587 Rocky Mount, N. C. Brake, J. H. Fr. Ag. 321 7th, Box 3587 Rocky Mount, N. C. Bramett, J. E. Jr. Ch. E. 132 Woodburn Rd. Cove Creek, N. C. Cove Creek, N. C. Cove Creek, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258 A. Crametton, N. C. Brandon, J. W. Jr. M. E. 258	Boswell, A. W	Fr. M. E	202 8th	Bailey, N. C.
Bowen, J. H., Jr.         Sr. C. E.         2008 Hillsboro St.         Atlanta, Ga.           Bowers, E. S.         Sr. Ch. E.         2407 Clark Avenue.         Jackson, N. C.           Bowers, E. S.         Sr. Ch. E.         2407 Clark Avenue.         Jackson, N. C.           Bowers, W. H.         Fr. Ag.         2103 10th.         Norwood, N. C.           Bowers, W. H.         Fr. Ag.         203 10th.         Norwood, N. C.           Bowles, P. P.         Fr. Ag.         2129 South, Box 35514.         Hiddenite, N. C.           Bowles, W. F.         Jr. Ag.         229 South, Box 3556.         Hiddenite, N. C.           Bownan, H. L.         So. Ch. E.         507 6th, Box 3526.         Hiddenite, N. C.           Boyce, R. D.         Fr. Ag.         25 8th.         Woodland, N. C.           Boyette, Ray.         Jr. Jnd. E.         126 South, Box 3526.         Kenley, N. C.           Boyette, Ray.         Jr. Jnd. E.         126 South, Box 3526.         Kenley, N. C.           Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767.         Jackson, N. C.           Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767.         Jackson, N. C.           Bragaw, William         Fr. F. C. & Pl. B.         114 A.         Rocky Mount, N. C.           <	Bousheld, C. L.	b r. b or.	323 8th	Queens Village, N. V.
Bower, J. H.         So. M. E.         332 1911, Box 3812         Lexingron, N. C.           Bowers, E. S.         Sr. Ch. E.         2407 Clark Avenue.         Jackson, N. C.           Bowers, F. J.         So. Ag.         114 South, Box 3514         Jackson, N. C.           Bowles, J. P.         Fr. Ag.         203 10th         Norwood, N. C.           Bowles, W. F.         Jr. Ag.         229 South, Box 3561         Hiddenite, N. C.           Bowman, H.         So. Ch. L.         307 6th, Box 3267         Hiddenite, N. C.           Boyee, M. B.         Fr. Ch. E.         308 7rth, Box 3574         Albemarle, N. C.           Boyette, Ray.         Jr. Ind. E.         225 South, Box 3526         Kenly, N. C.           Boyette, Ray.         Jr. Ind. E.         126 South, Box 3526         Kenly, N. C.           Boyette, Ray.         Jr. Ind. E.         201 A.         New Bern, N. C.           Bradeley, P. A.         Sr. Ag. Ed.         2277 1911, Box 3767         Jackson, N. C.           Bradeley, P. A.         Sr. Ag. Ed.         2277 1911, Box 3767         Jackson, N. C.           Bradshaw, T. L.         Fr. For.         1825 St. Marys St.         Washington, N. C.           Brake, R. W.         Sr. For.         218 St. Marys St.         Washington, N. C.	Bowen, E. R.	So. Ch. E	2405 Clark Avenue	Charlotte, N. C.
Bowers, F. J.         So. Ag.         114 South, Box 5514         Jackson, N. C.           Bowers, W. H.         Fr. Ag.         203 10rh         Norwood, N. C.           Bowles, J. P.         Fr. Ag.         203 10rh         Norwood, N. C.           Bowles, W. F.         Ir. Ag.         229 South, Box 3561         Hiddenite, N. C.           Bowles, W. F.         Ir. Ag.         229 South, Box 3567         Hiddenite, N. C.           Bowman, H. I.         So. Ch. E.         305 7rh, Box 3574         Albemarle, N. C.           Boyce, R. D.         Fr. Ch. E.         308 7rh, Box 3574         Albemarle, N. C.           Boycette, Ray.         Jr. Ind. E.         126 South, Box 3556         Kenly, N. C.           Boyette, Ray.         Jr. Ind. E.         126 South, Box 3567         Kenly, N. C.           Boylan, W. M.         Fr. M. E.         201 A.         New Bern, N. C.           Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767         Jackson, N. C.           Bragaw, William         Fr. F. C. & Pl. B.         114 A.         Rocky Mount, N. C.           Bragaw, William         Fr. F. Ag.         321 7th, Box 3587         Rocky Mount, N. C.           Bramet, J. H.         Fr. Ag.         321 7th, Box 3587         Rocky Mount, N. C.           Bramet,	Bowen, J. H., Jr.	Sr. C. E.	2008 Hillsboro St	Atlanta, Ga.
Bowers, F.   So. Ag.	Dower, J. H.	50. M. E	332 1911, Box 3812	Lexington, N. C.
Bowers, W. H.         Fr. Ag. Engr.         203 10th         Norwood, N. C.           Bowles, W. F.         Jr. Ag. Engr.         2408 Strafford Ave.         Hiddenite, N. C.           Bowles, W. F.         Jr. Ag.         229 South, Box 3561         Hiddenite, N. C.           Bownan, H. L.         So. Ch. E.         307 6th, Box 35267         Hickory, N. C.           Boyce, R. D.         Fr. Ch. E.         308 7th, Box 3574         Albemarle, N. C.           Boyeter, R. D.         Fr. Ag.         25 8th         Woodland, N. C.           Boyeter, R. D.         Fr. Ag.         25 8th         Woodland, N. C.           Boylan, W. M.         Fr. M. E.         201 A.         New Bern, N. C.           Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767         Jackson, N. C.           Bradley, R. T.         Ir. F. C. & Pl. B.         11 A         Rocky Mount, N. C.           Bragaw, W. William         Fr. For.         182 8th         Burgaw, N. C.           Bragaw, William         Fr. For.         215 South, Box 3617         Rocky Mount, N. C.           Brake, J. H.         Fr. Ag.         321 7th, Box 3617         Rocky Mount, N. C.           Brame, C. B.         Fr. M. E.         328 8th         Lucama, N. C.           Brame, C. B.         Fr. M.	Boyrers F I	Sr. Cn. E	2±U/ Clark Avenue	Jackson, N. C.
Bowles, J. P.         Fr. Ag. Engr.         2408 Srafford Ave.         Hiddenite, N. C.           Bowles, W. F.         I. Ag.         229 South, Box 3561.         Hiddenite, N. C.           Bowman, H. L.         So. Ch. L.         307 6th, Box 3267.         Hickory, N. C.           Boyce, M. B.         Fr. Ch. E.         308 7th, Box 3574.         Albemarle, N. C.           Boyete, R. D.         Fr. Ag.         25 8th         Woodland, N. C.           Boylan, W. M.         Fr. M. E.         201 A.         New Bern, N. C.           Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767.         Jackson, N. C.           Bradley, R. T.         Jr. F. C. & Pl. B.         114 A.         Rocky Mount, N. C.           Bragaw, William         Fr. For.         1825 St. Marys St.         Washington, N. C.           Brame, R. W.         Sr. For.         21 South, Box 3537.         Rocky Mount, N. C.           Brame, C. B.         Fr. M. E.         328 8th.         Lucana, N. C.           Bramdon, J. W.         Jr. M. E.         238 8th.         Lucana, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Carametron, N. C.           Branks, Olyde, Jr.         So. Tex. Mfg.         21 Enterprise St.         Greensboro, N. C.           Brankon, S. B	Bowers W H	Fr Ag	203 10rb	Normend N. C.
Bowles, W. F.         Jr. Ag.         229 South, Box 3561.         Hiddenite, N. C.           Bowman, H. L.         So. Ch. E.         307 6th, Box 3574.         Albemarle, N. C.           Boyce, M. B.         Fr. Ch. E.         308 7th, Box 3574.         Albemarle, N. C.           Boyce, R. D.         Fr. Ag.         2'S 8th.         Woodland, N. C.           Boyete, R. D.         Fr. Ag.         2'S 8th.         Woodland, N. C.           Boylan, W. M.         Fr. M. E.         201 A.         Yew Bern, N. C.           Bradley, P. A.         S. Ag. Ed.         227 1911, Box 3767.         Jackson, N. C.           Bradley, P. A.         S. Ag. Ed.         227 1911, Box 3767.         Jackson, N. C.           Bradshaw, T. L.         Fr. Gen. Engr.         318 8th.         Burgaw, N. C.         Burgaw, N. C.           Bragaw, William         Fr. Fr. For.         1825 8th.         Burgaw, N. C.         Burgaw, N. C.           Brake, B. H.         Fr. Ag.         321 7th, Box 3387.         Rocky Mount, N. C.           Brame, C. B.         Fr. M. E.         328 8th.         Lucama, N. C.           Brame, C. B.         Fr. M. E.         328 8th.         Lucama, N. C.           Bramon, J. W.         Jr. M. E.         338 A.         Cove Creek, N. C.	Bowles, I. P.	Fr. Ag. Engr.	2408 Stafford Ave	Hiddenite, N. C.
Bowman, H. L.         So. Ch. E.         307 6th, Box 3267.         Hickory, N. C.           Boyce, R. D.         Fr. Ch. E.         308 7rh, Box 3374.         Albemarle, N. C.           Boyce, R. D.         Fr. Ag.         25 8th.         Woodland, N. C.           Boylan, W. M.         Fr. M. E.         201 A.         Yew Bern, N. C.           Bradley, P. A.         5r. Ag. Ed.         227 1911, Box 3767.         Jackson, N. C.           Bradley, R. T.         Jr. F. C. & Pl. B.         114 A.         Rocky Mount, N. C.           Bradshaw, T. L.         Fr. Gen. Engr.         318 8th.         Burgaw, N. C.           Bragaw, William         Fr. For.         1225 8t. Marys 8t.         Washington, N. C.           Brake, R. W.         Sr. For.         21 South, Box 3617.         Rocky Mount, N. C.           Bramen, C. B.         Fr. M. E.         328 8th.         Lucama, N. C.           Bramdon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Branks, Clyde, Jr.         So. Tex. Mfg.         21 Enterprise St.         Greensboro, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Branscome, J.	Bowles, W. F.	Ir. As.	229 South, Box 3561	Hiddenite, N. C.
Boyce, M. B. Fr. Ch. E. 308 7th, Box 3374. Albemarle, N. C. Boychte, R. D. Fr. Ag. 25 8th. Woodland, N. C. Boychte, Ray. Ir. Ind. E. 126 South, Box 3526. Kenly, N. C. Boylan, W. M. Fr. M. E. 201 A. New Bern, N. C. Bradley, P. A. Sr. Ag. Ed. 227 1911, Box 3767. Jackson, N. C. Bradley, P. A. Sr. Ag. Ed. 227 1911, Box 3767. Jackson, N. C. Bradley, P. A. Sr. Ag. Ed. 227 1911, Box 3767. Jackson, N. C. Bradley, R. T. Jr. F. C. & Pl. B. 114 A. Rocky Mount, N. C. Bragaw, William Fr. Fr. Gen. Engr. 318 8th. Burgaw, N. C. Bragaw, William Fr. Fr. Ag. 321 7th, Box 3387. Rocky Mount, N. C. Brake, J. H. Fr. Ag. 321 7th, Box 3387. Rocky Mount, N. C. Brake, J. H. Fr. Ag. 321 7th, Box 3387. Rocky Mount, N. C. Brame, C. B. Fr. M. E. 328 8th. Lucama, N. C. Bramdett, J. E. Jr. Ch. E. 132 Woodburn Rd. Cove Creek, N. C. Brandon, J. W. Jr. M. E. 238 A. Cramerton, N. C. Brandon, S. B. So. Ag. Ed. 303 4th, Box 3129. Yadkinville, N. C. Brandon, S. B. So. Ag. Ed. 303 4th, Box 3129. Yadkinville, N. C. Brandon, G. M., Jr. Jr. Tex. Mfg. 21 Enterprise St. Greensboro, N. C. Brannon, G. M., Jr. Jr. Tex. Mgt. 10 Enterprise St. Sanford, N. C. Brannon, R. E. Jr. Tex. Mfg. 224 South, Box 3510. Asheville, N. C. Brannon, R. E. Jr. Tex. Mfg. 224 South, Box 3511. Galax, Va. Branscome, J. R. So. Ch. E. 351 1911, Box 3811. Galax, Va. Branscome, J. R. So. Ch. E. 2513 Clark Avenue Greensboro, N. C. Brandon, L. G. Fr. Ag. Ed. 223 Sth. Branscome, J. R. So. Ch. E. 2513 Clark Avenue Greensboro, N. C. Bravley, T. A. Fr. Ag. 4 Maiden Lane Mooresville, N. C. Brewer, W. P. So. Ch. E. 115 C. Greensboro, N. C. Brewer, W. P. So. Ch. E. 115 C. Greensboro, N. C. Brewer, W. P. So. Ch. E. 115 C. Greensboro, N. C. Brinkley, J. W. Fr. Tex. C. & D. 125 8th. Wurfteesboro, N. C. Brinkley, J. W. Fr. Tex. C. & D. 125 8th. Wurfteesboro, N. C. Brinkley, J. W. Fr. Tex. C. & D. 125 8th. Wurfteesboro, N. C. Brinkley, J. W. Fr. Tex. C. & D. 125 8th. Palack Mountain, N. C. Brookhan, I. S. Fr. F. Fr. M. E. 229 A. Murfteesboro, N. C. Brinkley, J. W. Fr. Tex. Mfg. 567 N. Person St. Rale	Bowman, H. L.	So. Ch. E.	307 6th. Box 3267	Hickory, N. C.
Boyete, R. D.         Fr. Ag         25 8th         Woodland, N. C.           Boyette, Ray.         Jr. Ind. E.         126 8outh, Box 5526         Kenly, N. C.           Boylan, W. M.         Fr. M. E.         201 A.         New Bern, N. C.           Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767         Jackson, N. C.           Bradley, R. T.         Jr. F. C. & Pl. B. 114 A         Rocky Mount, N. C.           Bradshaw, T. L.         Fr. Gen. Engr.         318 8th         Burgaw, N. C.           Bragaw, William         Fr. For         1825 8th         Burgaw, N. C.           Brake, J. H.         Fr. Ag.         3217 7th, Box 3387         Rocky Mount, N. C.           Brake, R. W.         Sr. For         21 South, Box 3617         Rocky Mount, N. C.           Bramlett, J. E.         Jr. Ch. E.         132 Woodburn Rd.         Cove Creek, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Branks, Clyde, Jr.         So. Tex. Mig.         21 Enterprise St.         Greensboro, N. C.           Brankon, R. E.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Branscome, J. R.	Boyce, M. B.	Fr. Ch. E	308 7rh, Box 3374	Albemarle, N. C.
Boylan, W. M.         Fr. M. E.         201 A.         New Bern, N. C.           Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767         Jackson, N. C.           Bradley, R. T.         Jr. F. C. & Pl. B.         114 A         Rocky Mount, N. C.           Bragaw, William         Fr. For.         1825 St. Marys St.         Burgaw, N. C.           Brake, J. H.         Fr. Ag.         321 7th, Box 3387         Rocky Mount, N. C.           Brake, R. W.         Sr. For.         21 South, Box 3617         Rocky Mount, N. C.           Brame, C. B.         Fr. M. E.         238 Sth.         Lucama, N. C.           Bramdett, J. E.         Jr. Ch. E.         132 Woodburn Rd.         Cove Creek, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brandon, S. G. S. Tex. Mfg.         21 Enterprise St.         Greensboro, N. C.           Branks, Clyde, Jr.         So. E. E.         306 5th, Box 3230         Asheville, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South, Box 3511         Galax, Va. <t< td=""><td>Bovce, R. D</td><td>Fr. Ag.</td><td> 25 Sth</td><td>. Woodland, N. C.</td></t<>	Bovce, R. D	Fr. Ag.	25 Sth	. Woodland, N. C.
Bradley, P. A.         Sr. Ag. Ed.         227 1911, Box 3767         Jackson, N. C.           Bradley, R. T.         Jr. F. C. & Pl. B.         114 A.         Rocky Mount, N. C.           Bragaw, William         Fr. Gen. Engr.         318 8th.         Burgaw, N. C.           Bragaw, William         Fr. For.         1825 8t. Marys 8t.         Washington, N. C.           Brake, J. H.         Fr. Ag.         321 7th, Box 3387         Rocky Mount, N. C.           Brake, R. W.         Sr. For.         21 South, Box 3617         Rocky Mount, N. C.           Bramer, C. B.         Fr. M. E.         328 8th.         Lucama, N. C.           Bramlett, J. E.         Jr. Ch. E.         132 Woodburn Rd.         Cove Creek, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         503 4th, Box 3129         Yadkinville, N. C.           Brandon, G. Gorge, Jr.         So. Tex. Mfg.         21 Enterprise St.         Greensboro, N. C.           Brandon, G. Gorge, Jr.         So. Tex. Mfg.         21 Enterprise St.         Sanford, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         21 Enterprise St.         Sanford, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         224 South, Box 3516	Boyette, Ray	Jr. Ind. E	126 South, Box 3526	Kenly, N. C.
Bradshaw, T. L.         Jr. F. C. & Pl. B.         114 A         Rocky Mount, N. C.           Bragsaw, William         Fr. For.         1825 St. Marys St.         Washington, N. C.           Brake, J. H.         Fr. Ag.         321 7th, Box 3387         Rocky Mount, N. C.           Brake, R. W.         Sr. For.         21 South, Box 3617         Rocky Mount, N. C.           Bramlett, J. E.         Jr. M. E.         328 Sth.         Lucama, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brankon, George, Jr.         So. Tex. Mfg.         21 Enterprise St.         Greensboro, N. C.           Brankon, G. M., Jr. Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Branson, B. E.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Branscome, J. R. So. Ch. E.         351 1911, Box 3511         Galax, Va.           Brasington, C. F. Jr. Fr. M. E.         2513 Clark Avenue         Greensboro, N. C.           Brasingto	Boylan, W. M.	tr. M. E	201 A.	New Bern, N. C.
Bragaw, William         Fr. For.         1825 St. Marys St.         Washington, N. C.           Brake, J. H.         Fr. Ag         321 7th, Box 3387         Rocky Mount, N. C.           Brame, C. B.         Fr. M. E.         328 8th         Lucama, N. C.           Bramlett, I. E.         Jr. Ch. E.         132 Woodburn Rd         Cove Creek, N. C.           Brandon, I. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brandt, George, Ir.         So. Tex. Mfg         21 Enterprise St.         Greensboro, N. C.           Branks, Clyde, Ir.         So. E. E.         306 5th, Box 3230         Asheville, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Branscome, J. R.         So. Ch. E.         351 1911, Box 3811         Galax, Va.           Bransley, L. G.         Fr. Ag. Ed.         225 8th         Balley, N. C.           Brasington, C. F., Jr.         Fr. M. E.         510 Cole St.         Aberdeen, N. C.           Brawley, T. A.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.	Bradlas D T	Sr. Ag. Ld	22/ 1911, Box 3/6/	Dackson, N. C.
Bragaw, William         Fr. For.         1825 St. Marys St.         Washington, N. C.           Brake, J. H.         Fr. Ag         321 7th, Box 3387         Rocky Mount, N. C.           Brame, C. B.         Fr. M. E.         328 8th         Lucama, N. C.           Bramlett, I. E.         Jr. Ch. E.         132 Woodburn Rd         Cove Creek, N. C.           Brandon, I. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brandt, George, Ir.         So. Tex. Mfg         21 Enterprise St.         Greensboro, N. C.           Branks, Clyde, Ir.         So. E. E.         306 5th, Box 3230         Asheville, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Branscome, J. R.         So. Ch. E.         351 1911, Box 3811         Galax, Va.           Bransley, L. G.         Fr. Ag. Ed.         225 8th         Balley, N. C.           Brasington, C. F., Jr.         Fr. M. E.         510 Cole St.         Aberdeen, N. C.           Brawley, T. A.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.	Bradshaw T I	Fr. Gan. Engr	310 0-h	Rugger N C
Brake, J. H.         fr. Ag         321 7th, Box 3387         Rocky Mount, N. C.           Brame, R. W.         Sr. For.         21 South, Box 3617         Rocky Mount, N. C.           Bramelett, J. E.         Jr. M. E.         328 Sth         Lucama, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Crowe Creek, N. C.           Brandon, J. W.         Jr. M. E.         238 A.         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brandon, S. B.         So. Ag. Ed.         305 4th, Box 3230         Asheville, N. C.           Branks, Clyde, Jr.         So. E. E.         306 5th, Box 3250         Asheville, N. C.           Branson, G. M., Jr.         Jr. Tex. Mfg.         21 Enterprise St.         Sanford, N. C.           Branson, B. W.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Bransone, J. R.         So. Ch. E.         331 1911, Box 3811         Galax, Va.           Branson, H. W., Jr.         Sr. C. E.         2513 Clark Avenue         Greensboro, N. C.           Brantley, L. G.         Fr. Ag. Ed.         225 8th         Bailey, N. C.           Brawley, T. A.         Fr. M. E.         510 Cole St.         Aberdeen, N. C.	Resease William	Fr For	1001 C+ Marro C+	Washington N C
Bramelett, J. E.   Jr. Ch. E.   132 Woodburn Rd   Cove Creek, N. C.	Brake, J. H.	Fr. Ag.	321 7th. Box 3387	Rocky Mount, N. C.
Bramelett, J. E.   Jr. Ch. E.   132 Woodburn Rd   Cove Creek, N. C.	Brake, R. W.	Sr. For.	.21 South, Box 3617	Rocky Mount, N. C.
Brandon, J. W.         Jr. M. E.         238 A         Cramerton, N. C.           Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brandt, George, Ir.         So. Tex. Mfg.         21 Enterprise St.         Greensboro, N. C.           Branks, Clyde, Jr.         So. E.         306 5th, Box 3230         Asheville, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Branscome, J. R.         So. Ch. E.         331 1911, Box 3811         Galax, Va.           Branscome, J. R.         So. Ch. E.         331 1911, Box 3811         Galax, Va.           Branscome, J. R.         So. Ch. E.         331 1911, Box 3811         Galax, Va.           Branscome, J. R.         So. Ch. E.         331 1911, Box 3811         Galax, Va.           Branscome, J. R.         So. Ch. E.         331 1911, Box 3811         Greensboro, N. C.           Branscome, J. R.         So. Ch. E.         331 1911, Box 3811         Galax, Va.           Branscome, J. R.         So. Ch. E.         315 Clark Avenue         Greensboro, N. C.           Branscome, J. R.         Fr. Ag. Ed.         220 Sth         Aberdeen,	Drame, U. B.	Fr. VI F.	1/8 8th	Lucama, N. C.
Brandon, S. B.         So. Ag. Ed.         303 4th, Box 3129         Yadkinville, N. C.           Brandt, George, Ir.         So. Tex. Mfg.         21 Enterprise St.         Greensboro, N. C.           Branks, Clyde, Jr.         So. E.         306 5th, Box 3230         Asheville, N. C.           Brannon, G. M., Jr.         Ir. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South, Box 3536         Rockingham, N. C.           Branscome, J. R.         So. Ch. E.         331 1911, Box 3811         Galax, Va.           Branson, H. W., Jr.         Sr. C. E.         2513 Clark Avenue         Greensboro, N. C.           Bransley, L. G.         Fr. Ag. Ed.         225 8th.         Bailey, N. C.           Brasington, C. F., Jr.         Fr. M. E.         510 Cole St.         Aberdeen, N. C.           Brawley, T. A.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Breeze, W. H.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Brewer, J. E., Il.         Jr. Ag. Ed.         19 South, Box 3615         Shelby, N. C.           Bringes, J. J.         Jr. Ag. Ed.         19 South, Box 3615         Shelby, N. C.           Brinsley, J. W.         Fr. Tex. C. & D.         12	Bramlett, J. E.	Jr. Ch. E		Cove Creek, N. C.
Brandt, George, Jr.         So. Tex. Mfg         21 Enterprise St.         Greensboro, N. C.           Branks, Clyde, Jr.         So. E. E.         306 5th, Box 3230         Asheville, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Branscome, J. R.         So. Ch. E.         351 1911, Box 3811         Galax, Va.           Branson, H. W., Jr.         Sr. C. E.         2513 Clark Avenue         Greensboro, N. C.           Brantley, L. G.         Fr. Ag. Ed.         225 8th         Bailey, N. C.           Brasington, C. F., Jr.         Fr. M. E.         510 Cole St.         Aberdeen, N. C.           Brawley, T. A.         Fr. Ag. Ed.         225 8th         Bailey, N. C.           Breeze, W. H.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Breeze, W. H.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Brewer, J. E., II.         Jr. Ag.         10 Enterprise St.         Clemmons, N. C.           Brewer, W. P.         So. Ch. E.         115 C         Greensboro, N. C.           Bridges, J. L., Jr.         Fr. M. E.         8 9th         Raleigh, N.	Brandon, J. W.	Jr. M. E	238 A	Cramerton, N. C.
Branks. Clyde. Jr.         So. E. E.         306 Sth. Box 3230         Asheville, N. C.           Brannon, G. M., Jr.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South. Box 3556         Rockingham, N. C.           Branscome, J. R.         So. Ch. E.         351 1911. Box 3811         Galax, Va.           Branson, H. W., Jr.         Sr. C. E.         2513 Clark Avenue         Greensboro, N. C.           Brantley, L. G.         Fr. Ag. Ed.         225 Sth.         Bailey, N. C.           Brasington, C. F., Jr.         Fr. M. E.         510 Cole St.         Aberdeen, N. C.           Brawley, T. A.         Fr. Ag. d.         4 Maiden Lane         Mooresville, N. C.           Breeze, W. H.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Breet, A. C.         Fr. M. E.         228 A         Murfreesboro, N. C.           Brewer, I. E., II.         Jr. Ag. Ed.         10 Enterprise St.         Clemmons, N. C.           Brewer, W. P.         So. Ch. E.         115 C         Greensboro, N. C.           Bridges, I. L., Jr.         Fr. M. E.         8 9th.         Raleigh, N. C.           Brinsley, J. W.         Fr. Tex. C. & D. 125 Sth.         Raleigh, N. C.	Brandon, S. B.	50. Ag. Ed		Yadkinville, N. C.
Brannon, G. M., Jr.         Jr. Tex. Mgt.         10 Enterprise St.         Sanford, N. C.           Brannon, R. E.         Jr. Tex. Mfg.         224 South, Box 3556         Rockingham, N. C.           Branscome, J. R.         So. Ch. E.         351 1911, Box 3811         Galax, Va.           Branson, H. W., Jr.         Sr. C. E.         251 31 Clark Avenue         Greensboro, N. C.           Brantley, L. G.         Fr. Ag. Ed.         225 8th         Bailey, N. C.           Brasington, C. F., Jr.         Fr. M. E.         510 Cole St.         Aberdeen, N. C.           Brawley, T. A.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Breeze, W. H.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Brewer, J. E., II.         Jr. Ag.         10 Enterprise St.         Clemmons, N. C.           Brewer, W. P.         So. Ch. E.         115 C.         Greensboro, N. C.           Bridges, I. J.         Jr. Ag. Ed.         19 South, Box 3615         Shelby, N. C.           Brings, T. L., Ir.         Fr. M. E.         89th.         Raleigh, N. C.           Brinsley, J. W.         Fr. Tex. C. & D. 125 8th.         Valdese, N. C.           Brinson, L. T., Jr.         Fr. M. E.         124 7th, Box 3324         Arapahoe, N. C. </td <td>Branke Clyde Ir</td> <td>50. F F</td> <td>304 5-b Roy 2230</td> <td>Acharilla N C</td>	Branke Clyde Ir	50. F F	304 5-b Roy 2230	Acharilla N C
Bransome, J. K.  So. Ch. E.  Branson, H. W., Jr.  Branson, H. W., Jr.  Sr. C. E.  2513 Clark Avenue  Greensboro, N. C.  Brantley, L. G.  Fr. Ag. Ed.  225 8th.  Bailey, N. C.  Brasington, C. F., Jr.  Fr. M. E.  510 Cole St.  Aberdeen, N. C.  Brawley, T. A.  Fr. Ag.  4 Maiden Lane  Mooresville, N. C.  Breeze, W. H.  Fr. Ag. Ed.  220 Chamberlain St.  Hurdle Mills, N. C.  Brett, A. C.  Fr. M. E.  228 A.  Murfreesboro, N. C.  Brewer, J. E. II.  Jr. Ag.  10 Enterprise St.  Clemmons, N. C.  Bringes, I. L.  Jr. Ag.  Ed.  19 South, Box 3615  Shelby, N. C.  Bringes, I. L., Ir.  Fr. M. E.  8 9th.  Raleigh, N. C.  Brinson, L. T., Jr.  Fr. M. E.  124 7th, Box 3324  Arapahoe, N. C.  Brittain, J. V., Jr.  Fr. For.  214 8th  Black Mountain, N. C.  Brookman, I. S.  Fr. Tex. Mfg.  567 N. Person St.  Brookbank, T. H.  Jr. Arch. E.  2209 Hope Street  Oak Ridge, N. C.  Brooks, P. A.  So. Ch. E.  2316 Hillsboro St.  Albemarle, N. C.  Brooks, P. A.  So. Ch. E.  236 Hollsboro St.  Albemarle, N. C.  Brookshire, J. C.  Fr. An. Prod.  2207 Hope Street  Franklin, N. C.  Brookwell, N. C.  Franklin, N. C.  Brookshire, J. C.  Fr. An. Prod.  2207 Hope Street  Franklin, N. C.  Brookwell, N. C.  Brookwell, N. C.  Brookwell, N. C.  Brookwell, N. C.	Brannon, G. M., Ir	Ir Tey Mot	10 Enterprise Sr	Sanford N. C.
Bransome, J. K.  So. Ch. E.  Branson, H. W., Jr.  Branson, H. W., Jr.  Sr. C. E.  2513 Clark Avenue  Greensboro, N. C.  Brantley, L. G.  Fr. Ag. Ed.  225 8th.  Bailey, N. C.  Brasington, C. F., Jr.  Fr. M. E.  510 Cole St.  Aberdeen, N. C.  Brawley, T. A.  Fr. Ag.  4 Maiden Lane  Mooresville, N. C.  Breeze, W. H.  Fr. Ag. Ed.  220 Chamberlain St.  Hurdle Mills, N. C.  Brett, A. C.  Fr. M. E.  228 A.  Murfreesboro, N. C.  Brewer, J. E. II.  Jr. Ag.  10 Enterprise St.  Clemmons, N. C.  Bringes, I. L.  Jr. Ag.  Ed.  19 South, Box 3615  Shelby, N. C.  Bringes, I. L., Ir.  Fr. M. E.  8 9th.  Raleigh, N. C.  Brinson, L. T., Jr.  Fr. M. E.  124 7th, Box 3324  Arapahoe, N. C.  Brittain, J. V., Jr.  Fr. For.  214 8th  Black Mountain, N. C.  Brookman, I. S.  Fr. Tex. Mfg.  567 N. Person St.  Brookbank, T. H.  Jr. Arch. E.  2209 Hope Street  Oak Ridge, N. C.  Brooks, P. A.  So. Ch. E.  2316 Hillsboro St.  Albemarle, N. C.  Brooks, P. A.  So. Ch. E.  236 Hollsboro St.  Albemarle, N. C.  Brookshire, J. C.  Fr. An. Prod.  2207 Hope Street  Franklin, N. C.  Brookwell, N. C.  Franklin, N. C.  Brookshire, J. C.  Fr. An. Prod.  2207 Hope Street  Franklin, N. C.  Brookwell, N. C.  Brookwell, N. C.  Brookwell, N. C.  Brookwell, N. C.	Brannon, R. E.	Ir. Tex. Mfg.	224 South, Box 3556	Rockingham, N. C.
Branson, H. W., Jr. Sr. C. E. 2513 Clark Avenue Greensboro, N. C. Brantley, L. G. Fr. Ag. Ed. 225 8th Bailey, N. C. Brasington, C. F., Jr. Fr. M. E. 510 Cole St. Aberdeen, N. C. Brawley, T. A. Fr. Ag. 4 Maiden Lane Mooresville, N. C. Breeze, W. H. Fr. Ag. Ed. 220 Chamberlain St. Hurdle Mills, N. C. Breet, A. C. Fr. M. E. 228 A. Murfreesboro, N. C. Brewer, J. E. II. Jr. Ag. 10 Enterprise St. Clemmons, N. C. Brewer, I. E. II. Jr. Ag. 10 Enterprise St. Clemmons, N. C. Brewer, W. P. So. Ch. E. 115 C. Greensboro, N. C. Bridges, J. L., Jr. Fr. M. E. 8 9th. Raleigh, N. C. Brinsley, J. W. Fr. Tex. C. & D. 125 8th Raleigh, N. C. Brinson, L. T., Jr. Fr. M. E. 124 7th, Box 3524 Arapahoe, N. C. Britt, E. M. Sr. Tex. Mgt. 2407 Clark Ave. Winston-Salem, N. C. Brittain, J. V., Jr. Fr. For. 214 8th Black Mountain, N. C. Brockman, J. S. Fr. Tex. Mfg. 567 N. Person St. Raleigh, N. C. Brookbank, T. H. Jr. Arch. E. 2209 Hope Street. Oak Ridge, N. C. Brooks, P. A. So. Ch. E. 2316 Hillsboro St. Albemarle, N. C. Brooks, P. A. So. Ch. E. 2316 Hillsboro St. Albemarle, N. C. Brooks, P. A. So. Ch. E. 2316 Hillsboro St. Albemarle, N. C. Brooks, P. A. So. Ch. E. 2316 Hillsboro St. Albemarle, N. C. Brooks, A. Wade So. For. 120 South, Box 3520 Rockwell, N. C. Brown, A. Wade	Branscome, I. R.	So. Ch. E	551 1911. Box 3811	Galax, Va.
Brasington, C. F., Jr. Fr. M. E. 510 Cole St. Aberdeen, N. C. Brawley, T. A. Fr. Ag. 4 Maiden Lane Mooresville, N. C. Breeze, W. H. Fr. Ag. Ed. 220 Chamberlain St. Hurdle Mills, N. C. Brett, A. C. Fr. M. E. 228 A. Murfreesboro, N. C. Brewer, J. E., II. Jr. Ag. 10 Enterprise St. Clemmons, N. C. Brewer, W. P. So. Ch. E. 118 C. Greensboro, N. C. Bridges, I. J. Jr. Ag. 19 South, Box 3615 Shelby, N. C. Bridges, I. J. Ir. Fr. M. E. 89th. Raleigh, N. C. Brinkley, J. W. Fr. Tex. C. & D. 125 Sth. Valdese, N. C. Brinkley, J. W. Fr. Tex. C. & D. 125 Sth. Valdese, N. C. Brint, E. M. Sr. Tex. Mgt. 2407 Clark Ave. Winston-Salem, N. C. Brittain, J. V., Jr. Fr. For. 214 Sth. Black Mountain, N. C. Brockman, J. S. Fr. Tex. Mfg. 567 N. Person St. Raleigh, N. C. Brockman, J. S. Fr. Tex. Mfg. 567 N. Person St. Raleigh, N. C. Brooks, N. J. III. Fr. Cer. E. 126 Sth. Fanwood, N. J. Brookbank, T. H. Jr. Arch, E. 2209 Hope Street. Oak Ridge, N. C. Brooks, L. C. Grad, E. E. 105 Chamberlain St. Bryson City, N. C. Brooks, L. C. Grad, E. E. 105 Chamberlain St. Bryson City, N. C. Brooks, L. C. Fr. An. Prod. 2207 Hope Street. Franklin, N. C. Brookshire, J. C. Fr. An. Prod. 2207 Hope Street. Franklin, N. C. Brookshire, J. C. Fr. An. Prod. 2207 Hope Street. Franklin, N. C. Brown, A. Wade. So. For. 120 South, Box 3520. Rockwell, N. C.	Branson, H. W., Jr.	Sr. C. E	2513 Clark Avenue	Greensboro, N. C.
Bretz, A. C.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Brett, A. C.         Fr. M. E.         228 A         Murfreesboro, N. C.           Brewer, I. E. II.         Jr. Ag.         10 Enterprise St.         Clemmons, N. C.           Brewer, W. P.         So. Ch. E.         115 C.         Greensboro, N. C.           Bridges, I. J.         Jr. Ag. Ed.         19 South, Box 5615         Shelby, N. C.           Briggs, I. L., Ir.         Fr. M. E.         8 9th.         Raleigh, N. C.           Brinsley, J. W.         Fr. Tex. C. & D.         125 8th.         Valdese, N. C.           Brinson, L. T., Ir.         Fr. M. E.         124 7th, Box 3324         Arapahoe, N. C.           Britt, E. M.         Sr. Tex. Mgt.         2407 Clark Ave.         Winston-Salem, N. C.           Brittain, J. V., Jr.         Fr. For.         214 8th.         Black Mountain, N. C.           Brockman, I. S.         Fr. Tex. Mfg.         567 N. Person St.         Raleigh, N. C.           Brookhank, T. H.         Jr. Arch. E.         2209 Hope Street.         Oak Ridge, N. C.           Brooks, L. C.         Grad, E. E.         105 Chamberlain St.         Bryson City, N. C.           Brooks, P. A.         So. Ch. E.         2316 Hillsboro St.         Albemarle. N. C.	Brantley, L. G.	Fr. Ag. Ed	225 §th	Bailey, N. C.
Bretz, A. C.         Fr. Ag. Ed.         220 Chamberlain St.         Hurdle Mills, N. C.           Brett, A. C.         Fr. M. E.         228 A         Murfreesboro, N. C.           Brewer, I. E. II.         Jr. Ag.         10 Enterprise St.         Clemmons, N. C.           Brewer, W. P.         So. Ch. E.         115 C.         Greensboro, N. C.           Bridges, I. J.         Jr. Ag. Ed.         19 South, Box 5615         Shelby, N. C.           Briggs, I. L., Ir.         Fr. M. E.         8 9th.         Raleigh, N. C.           Brinsley, J. W.         Fr. Tex. C. & D.         125 8th.         Valdese, N. C.           Brinson, L. T., Ir.         Fr. M. E.         124 7th, Box 3324         Arapahoe, N. C.           Britt, E. M.         Sr. Tex. Mgt.         2407 Clark Ave.         Winston-Salem, N. C.           Brittain, J. V., Jr.         Fr. For.         214 8th.         Black Mountain, N. C.           Brockman, I. S.         Fr. Tex. Mfg.         567 N. Person St.         Raleigh, N. C.           Brookhank, T. H.         Jr. Arch. E.         2209 Hope Street.         Oak Ridge, N. C.           Brooks, L. C.         Grad, E. E.         105 Chamberlain St.         Bryson City, N. C.           Brooks, P. A.         So. Ch. E.         2316 Hillsboro St.         Albemarle. N. C.	Brasington, C. F., Jr.	<u>F</u> r. M. E	510 Cole St	Aberdeen, N. C.
Brett, A. C.         Fr. M. E.         228 A         Murfreesboro, N. C.           Brewer, J. E., II.         Jr. Ag.         10 Enterprise St.         Clemmons, N. C.           Brewer, W. P.         So. Ch. E.         115 C.         Greensboro, N. C.           Bridges, I. J.         Jr. Ag. Ed.         19 South, Box 3615         Shelby, N. C.           Briggs, T. L., Jr.         Fr. M. E.         89 th.         Raleigh, N. C.           Brinkley, J. W.         Fr. Tex. C. & D.         125 8th.         Valdese, N. C.           Brinson, L. T., Jr.         Fr. M. E.         124 7th, Box 3524         Arapahoe, N. C.           Britt, E. M.         Sr. Tex. Mgt.         2407 Clark Ave.         Winston-Salem, N. C.           Brittain, J. V., Jr.         Fr. For.         214 8th.         Black Mountain, N. C.           Brookman, J. S.         Fr. Tex. Mfg.         567 N. Person St.         Raleigh, N. C.           Brohm, W. J., III.         Fr. Cer. E.         126 8th.         Fanwood, N. J.           Brookbank, T. H.         Jr. Arch. E.         2209 Hope Street.         Oak Ridge, N. C.           Brooks, L. C.         Grad. E. E.         105 Chamberlain St.         Bryson City, N. C.           Brooks, P. A.         So. Ch. E.         2316 Hillsboro St.         Albemarle. N. C.	DI2Wley, 1. A.	fr. Ag	Maiden Lane	Mooresville, N. C.
Brewer, J. E., II         Jr. Ag.         10 Enterprise St.         Clemmons, N. C.           Brewer, W. P.         So. Ch. E.         115 C.         Greensboro, N. C.           Bridges, I. L.         Jr. Ag. Ed.         19 South, Box 5615         Shelby, N. C.           Briggs, T. L., Jr.         Fr. M. E.         89th.         Raleigh, N. C.           Brinkley, J. W.         Fr. Tex. C. & D.         125 8th         Valdese, N. C.           Brinson, L. T., Jr.         Fr. M. E.         124 7th, Box 3524         Arapahoe, N. C.           Britt, E. M.         Sr. Tex. Mgt.         2407 Clark Ave.         Winston-Salem, N. C.           Brittain, J. V., Jr.         Fr. For.         214 8th         Black Mountain, N. C.           Brookman, I. S.         Fr. Tex. Mfg.         567 N. Person St.         Raleigh, N. C.           Brohm, W. J., III         Fr. Cer. E.         126 8th         Fanwood, N. J.           Brookbank, T. H.         Jr. Arch. E.         2209 Hope Street.         Oak Ridge, N. C.           Brooks, L. C.         Grad. E. E.         105 Chamberlain St.         Bryson City, N. C.           Brooks, P. A.         So. Ch. E.         2316 Hillsboro St.         Albemarle. N. C.           Brookshire, J. C.         Fr. An. Prod.         2207 Hope Street.         Franklin, N. C.	Brett 4 C	Fr. M. F.	220 Chamberlain St.	Murfraschere N C
Brewer, W. P.         So. Ch. E.         115 C.         Greensboro, N. C.           Bridges, I. J.         Jr. Ag. Ed.         19 South, Box 3615         Shelby, N. C.           Briggs, I. L., Ir.         Fr. M. E.         8 9th.         Raleigh, N. C.           Brinkley, J. W.         Fr. Tex. C. & D.         125 8th.         Valdese, N. C.           Brinson, L. T., Jr.         Fr. M. E.         124 7th, Box 3324         Arapahoe, N. C.           Britt, E. M.         Sr. Tex. Mgt.         2407 Clark Ave.         Winston-Salem, N. C.           Brottain, J. V., Jr.         Fr. For.         214 8th         Black Mountain, N. C.           Brockman, I. S.         Fr. Tex. Mfg.         567 N. Person St.         Raleigh, N. C.           Brohm, W. J., Ill         Fr. Cer. E.         126 8th         Fanwood, N. J.           Brookbank, T. H.         Jr. Arch. E.         2209 Hope Street         Oak Ridge, N. C.           Brooks, L. C.         Grad, E. E.         105 Chamberlain St.         Bryson City, N. C.           Brooks, P. A.         So. Ch. E.         2316 Hillsboro St.         Albemarle. N. C.           Brookshire, J. C.         Fr. An. Prod.         2207 Hope Street         Franklin, N. C.           Brown, A. Wade         So. For.         120 South, Box 3520.         Rockwell, N. C. <td>Brewer, L. F., H</td> <td>Ir Ac</td> <td>10 Enterprise St</td> <td>Clemmons N C</td>	Brewer, L. F., H	Ir Ac	10 Enterprise St	Clemmons N C
Bridges, J. J.         Jr. Ag. Ed.         19 South, Box 3615         Shelby, N. C.           Briggs, T. L., Ir.         Fr. M. E.         8 9th.         Raleigh, N. C.           Brinkley, J. W.         Fr. Tex. C. & D.         125 8th.         Valdese, N. C.           Brinkley, J. W.         Fr. Tex. C. & D.         124 7th, Box 3324         Arapahoe, N. C.           Britt, E. M.         Sr. Tex. Mgt.         2407 Clark Ave.         Winston-Salem, N. C.           Brittain, J. V., Jr.         Fr. For.         214 8th         Black Mountain, N. C.           Brockman, I. S.         Fr. Tex. Mfg.         567 N. Person St.         Raleigh, N. C.           Brockman, I. S.         Fr. Tex. Mfg.         567 N. Person St.         Raleigh, N. C.           Brookbank, T. H.         Jr. Arch. E.         2209 Hope Street.         Oak Ridge, N. C.           Brooks, L. C.         Grad. E. E.         105 Chamberlain St.         Bryson City, N. C.           Brooks, P. A.         So. Ch. E.         2316 Hillsboro St.         Albemarle. N. C.           Brookshire, J. C.         Fr. An. Prod.         2207 Hope Street.         Franklin, N. C.           Brown, A. Wade         So. For.         120 South, Box 3520.         Rockwell, N. C.	Brewer, W. P.	So. Ch. E.	115 C	Greenshoro, N. C.
Brinkley, J. W. Fr. Tex. C. & D. 125 8th Valdese, N. C. Brinson, L. T., Jr. Fr. M. E. 124 7th, Box 3324 Arapahoe, N. C. Britt, E. M. Sr. Tex. Mgt. 2407 Clark Ave. Winston-Salem, N. C. Brittain, J. V., Jr. Fr. For. 214 8th Black Mountain, N. C. Brockman, J. S. Fr. Tex. Mfg. 567 N. Person St. Raleigh, N. C. Brohm, W. J., Ill Fr. Cer. E. 126 8th Fanwood, N. J. Brookbank, T. H. Jr. Arch. E. 2209 Hope Street Oak Ridge, N. C. Brooks, L. C. Grad. E. E. 103 Chamberlain St. Bryson City, N. C. Brooks, P. A. So. Ch. E. 2316 Hillsboro St. Albemarle, N. C. Brookshire, J. C. Fr. An. Prod. 2207 Hope Street Franklin, N. C. Brown, A. Wade So. For. 120 South, Box 3520, Rockwell, N. C.	Bridges, J. J.	Ir. Ag. Ed.	19 South, Box 3615	Shelby, N. C.
Brinkley, J. W. Fr. Tex. C. & D. 125 8th Valdese, N. C. Brinson, L. T., Jr. Fr. M. E. 124 7th, Box 3324 Arapahoe, N. C. Britt, E. M. Sr. Tex. Mgt. 2407 Clark Ave. Winston-Salem, N. C. Brittain, J. V., Jr. Fr. For. 214 8th Black Mountain, N. C. Brockman, J. S. Fr. Tex. Mfg. 567 N. Person St. Raleigh, N. C. Brohm, W. J., Ill Fr. Cer. E. 126 8th Fanwood, N. J. Brookbank, T. H. Jr. Arch. E. 2209 Hope Street Oak Ridge, N. C. Brooks, L. C. Grad. E. E. 103 Chamberlain St. Bryson City, N. C. Brooks, P. A. So. Ch. E. 2316 Hillsboro St. Albemarle, N. C. Brookshire, J. C. Fr. An. Prod. 2207 Hope Street Franklin, N. C. Brown, A. Wade So. For. 120 South, Box 3520, Rockwell, N. C.	Briggs, T. L., Jr.	Fr. M. E	8 9th	Raleigh, N. C.
Britt, E. M. Sr. Tex. Mgt. 2407 Clark Ave. Winston-Salem, N. C. Brittain, J. V., Jr. Fr. For. 214 8th Black Mountain, N. C. Brockman, I. S. Fr. Tex. Mfg. 567 N. Person St. Raleigh, N. C. Brockman, I. S. Fr. Tex. Mfg. 126 8th Fanwood, N. J. Brookbank, T. H. Jr. Arch. E. 2209 Hope Street Oak Ridge, N. C. Brooks, L. C. Grad. E. E. 105 Chamberlain St. Bryson City, N. C. Brooks, P. A. So. Ch. E. 2316 Hillsboro St. Albemarle, N. C. Brookshire, J. C. Fr. An. Prod. 2207 Hope Street Franklin, N. C. Brown, A. Wade So. For. 120 South, Box 3520. Rockwell, N. C.	Brinkley, J. W.	Fr. Tex. C. & D	125 Sth	Valdese, N. C.
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Campbell, John F.         So. E. E.         Route I, Cary.         Wagram, N. C.           Campbell, Marvin R.         Jr. M. F.         207 A.         Dunn, N. C.           Campbell, Wm. N.         Jr. C. E.         209 Ashe Ave.         Raleigh, N. C.           Cannandy, N., Ellis, Jr.         So. E. E.         337 1911, Box 3817.         Oxford, N. C.           Cannon, Clyde W.         So. Tex. Mfg.         1720 Hillsboro St.         Ayden, N. C.           Cannon, J. M.         Sr. Ch. E.         1270 Hillsboro St.         New Bern, N. C.           Cannon, J. M.         Sr. Ch. E.         120 7th Box 3362.         Washington, N. C.           Careva, Jack P.         So. Ag. E.         103 6th, Box 3341.         Vanceboro, N. C.           Careva, Roland E.         Jr. For.         So. Ag. E.         105 6th, Box 3580.         Baltimore, Md.           Carrey, James F.         So. Ag. E.         2406 Hillsboro St.         Bethel, N. C.         Carey, Roland E.         Jr. For.         So. Ag. E.         103 6th, Box 3580.         Baltimore, Md.           Carrey, James F.         So. Ag. Ed.         120 Cos Ave.         Lincolnton, N. C.           Carpenter, Keith C.         So. Ag. Ed.         120 Cos Ave.         Lincolnton, N. C.           Carrey, James F.         So. Chee, Ed.         So. Cex	Campbell, D. M.	r. For	4 9th	Halitax, N. C.
Campbell, Marvin R. Jr. M. E. 207 Ashe Ave. Raleigh, N. C. Cannaby, N. Ellis, Jr. So. E. E. 337 1911, Box 3817. Oxford, N. C. Cannon, J. W. So. Tex. Mfg. 1720 Hillsboro St. Ayden, N. C. Cannon, J. M. Sr. Ch. E. 1720 Hillsboro St. New Bern, N. C. Cannon, J. M. Sr. Ch. E. 1720 Hillsboro St. New Bern, N. C. Cannon, J. M. Sr. Ch. E. 1720 Hillsboro St. New Bern, N. C. Capehart, A. A., Jr. Fr. C. E. 230 7th, Box 3362. Washington, N. C. Capehart, A. A., Jr. Fr. C. E. 230 7th, Box 3362. Washington, N. C. Carey, Jack P. So. Ag. E. 105 6th, Box 3362. Washington, N. C. Carey, Jack P. So. Arch. E. S. Maiden Lane. Kinston, N. C. Carey, Jack P. So. Arch. E. S. Maiden Lane. Kinston, N. C. Carey, Jack P. So. Ag. E. 2406 Hillsboro St. Bethel, N. C. Carpenter, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carpenter, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carrent, M. S. Jr. So. Ch. E. Box 772. Raleigh, N. C. Carter, Mrs. C. G. Grad. Voe. Guid. Cameron Ct. Apt. P-1B. Wilmington, N. C. Carter, Mrs. C. G. Grad. Voe. Guid. Cameron Ct. Apt. P-1B. Wilmington, N. C. Carter, H. Earl. Fr. Ag. Ed. 309 7th, Box 3375. Madison, N. C. Carter, W. E. So. Ind. E. 520 Cleveland St. Raleigh, N. C. Carty, Litchfield Fr. E. E. 212 10th. Selma, N. C. Carver, Irvin L. So. Ag. 112 Cox Ave. Durham, N. C. Carver, Irvin L. So. Ag. 112 Cox Ave. Durham, N. C. Care, Eugene R. Grad. M. E. 1304 Hillsboro St. Baltimore, Md. Carver, Irvin L. So. Ag. 112 Cox Ave. Durham, N. C. Cace, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Care, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Care, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel, N. C. Carbene, R. Grad. M. E. 1304 Hillsboro, St. Chapel, N. C. Carbene, H. So. Tex. C. & D. 230 1911, Box 3770. Charlotte, N. C. Carbene, H. So. Tex. C. & D. 230 1911, Box 3770. Charlotte, N. C. Carbene, H. So. Tex. C. & D. 230 1911, Box 3730. Charlotte, N. C. Chapena, W. H. F. E. E. 309 8th. Asheville, N. C. Chapena, W. H. F. F. E. 309 8th. Asheville, N. C. Chamblee, Graham V. Ir. For. 2	Campbell, E. K	Fr. Poul. Sci	I108 Glenwood Ave	Southport, N. C.
Campbell, Wm. N.         Jr. C. E.         209 Ashe Ave.         Raleigh, N. C.           Cannandy, N. Ellis, Jr.         So. E. E.         337 1911, Box 3817.         Oxford, N. C.           Cannon, Clyde W.         So. Tex. Mfg.         1720 Hillsboro St.         Ayden, N. C.           Cannon, J. M.         Sr. Ch. E.         1720 Hillsboro St.         New Bern, N. C.           Canup, Luther P.         Fr. Ag. Ed.         306 4th, Box 3132.         Salisbury, N. C.           Capenart, A. A., Jr.         Fr. C.         E.         230 7th, Box 3362.         Washington, N. C.           Carawon, Bruce E.         So. Ag. E.         105 6th, Box 3241         Vanceboro, N. C.           Carey, Roland E.         Jr. For.         316 South, Box 3580.         Baltimore, Md.           Carrey, Jack P.         So. Arch. E.         8 Maiden Lane.         Kinston, N. C.           Carpenter, Keith C.         So. Ag. Ed.         120 Cox Ave.         Lincolnton, N. C.           Carpenter, Keith C.         So. Ag. Ed.         120 Cox Ave.         Lincolnton, N. C.           Carpenter, Keith C.         So. Ch. E.         Box 772.         Raleigh, N. C.           Carrether, Mrs. C.         Grad. Voc. Guid.         Cameon Ct. Apt. P-1B.         Willimington, N. C.           Carter, Mrs. C.         Grad. Voc. Guid. </td <td>Campbell, John F.</td> <td>50. E. E</td> <td>Route I, Cary</td> <td>Wagram, N. C.</td>	Campbell, John F.	50. E. E	Route I, Cary	Wagram, N. C.
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Capup, Luther P. Fr. Ag. Ed. 306 4th, Box 3132. Salisbury, N. C. Capehart, A. A., Jr. Fr. C. E. 230 7th, Box 3362. Washington, N. C. Carpenton, Bruce E. So. Ag. E. 105 6th, Box 3241. Vanceboro, N. C. Carey, Roland E. Jr. For. 316 South, Box 3580. Baltimore, Md. Carney, James P. So. C. E. 2406 Hillsboro St. Bethel, N. C. Carpenter, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carpenter, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carpenter, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carpenter, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carpenter, Millard N., Jr. So. Tex. Mfg. 234 1911, Box 3774. Margarettsville, N. C. Carter, Mrs. C. C. Grad, Voc. Guid. Cameron Cr. Apt. P-1B. Wilmington, N. C. Carter, Mrs. C. C. Grad, Voc. Guid. Cameron Cr. Apt. P-1B. Wilmington, N. C. Carter, W. E. So. Ind. E. 520 Cleveland St. Raleigh, N. C. Carter, W. E. So. Ind. E. 520 Cleveland St. Raleigh, N. C. Cartwright, Luke W., Jr. Jr. M. E. 1922 Hillsboro St. Baltimore, Md. Carty, Litchfield. Fr. E. 212 10th. Selma, N. C. Carver, Irvin L. So. Ag. 112 Cox Ave. Durham, N. C. Carver, Irvin L. So. Ag. 112 Cox Ave. Durham, N. C. Case, Edgar. So. F. E. 218 South, Box 3550. Fountain, N. C. Case, Edgar. So. F. E. 218 South, Box 3550. Fountain, N. C. Cate, Eugene R. Grad. M. E. 1304 Hillsboro St. C. Capel Hill, N. C. Cather, Robert H. So. Tex. C. & D. 230 1911, Box 3770. Charlotte, N. C. Cather, Robert H. So. Tex. C. & D. 230 1911, Box 3770. Charlotte, N. C. Cather, Robert H. So. Tex. C. & D. 230 1911, Box 3770. Charlotte, N. C. Cather, Robert H. So. Tex. C. & D. 230 1911, Box 3750. Charlotte, N. C. Cather, Robert H. So. Tex. C. & D. 230 1911, Box 3750. Charlotte, N. C. Cather, Robert H. So. Tex. Mg. 206 6th, Box 3554. Concord, N. C. Charlotte, N. C. Charlotte	Cannon, I M	Sr Ch F	1720 Hillsboro St.	New Rern N C
Capehart, A. A., Jr.         Fr. C. E.         230 7th, Box 3362.         Washington, N. C. Carawon, Bruce E.         So. Ag. E.         105 6th, Box 3241.         Vanceboro, N. C.           Carey, Jack P.         So. Arch. E.         8 Maiden Lane.         Kinston, N. C.           Carey, Roland E.         Jr. For.         316 South, Box 3580.         Baltimore, Md.           Carney, James F.         So. C. E.         2406 Hillsboro St.         Bethel, N. C.           Carpenter, Keith C.         So. Ag. Ed.         120 Cox Ave.         Lincolnton, N. C.           Carpenter, Millard N., Jr.         So. C. E.         Box 772.         Raleigh, N. C.           Carter, M. F.         C. Grad. Voc. Guid.         Cameron Ct. Apt. P-1B.         Wilmington, N. C.           Carter, H. Earl.         Fr. Ag. Ed.         309 7th, Box 3375.         Madison, N. C.           Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Cartveright, Luke W., Jr. Jr. M. E.         1922 Hillsboro St.         Baltimore, Md.           Carty, Litchfield.         Fr. E.         212 10th.         Selma, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Cary, Litchfield.         Fr. Ch. E.         218 South, Box 3570.         Durham, N. C.	Canup. Luther P	Fr Ag Ed	306 4th Roy 3132	Salisbury N C
Carawon, Bruce E.         So. Ag. E.         105 6th, Box 3241.         Vanceboro, N. C.           Carey, Roland E.         Jr. For.         316 South, Box 3580.         Baltimore, Md.           Carpey, James F.         So. C. E.         2406 Hillsboro St.         Bethel, N. C.           Carpenter, Keith C.         So. Ag. Ed.         120 Cox Ave.         Lincolnton, N. C.           Carpenter, Millard N., Jr. So. Tex. Mfg.         234 1911, Box 3774.         Margarettsville, N. C.           Carter, Mr.         So. Ch. E.         Box 772.         Releigh, N. C.           Carter, Mr.         So. Ch. E.         Box 772.         Releigh, N. C.           Carter, Mr.         So. Ind. E.         520 Cleveland St.         Maldison, N. C.           Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Cartver, Irvin L.         So. Ag.         112 Cox Ave.         Selma, N. C.           Cartver, Irvin L.         So. Ag.         112 Cox Ave.         Selma, N. C.           Care, E. E.         212 10th.         Selma, N. C.           Care, C. Edgar.         So. E. E.         218 South, Box 3550.         Fountain, N. C.           Care, Eugene R.         Grad. M. E.         1304 Hillsboro St.         Chaple Hill, N. C.           Cate, Eugene R.	Capehart, A. A., Ir.	Fr. C F	230 7th Box 3362	Washington N C
Carey, Roland E.         Jr. For.         316 South, Box 3580.         Baltimore, Md.           Carney, James F.         So. C. E.         2406 Hillsbiror St.         Bethel, N. C.           Carpenter, Keith C.         So. Ag. Ed.         120 Cox Ave.         Lincolnton, N. C.           Carpenter, Millard N., Jr.         So. Ch. E.         Box 772.         Raleigh, N. C.           Carrell, S. E., Jr.         So. Ch. E.         Box 772.         Raleigh, N. C.           Carter, H. Earl.         Fr. Ag. Ed.         309 7th, Box 3375.         Maldison, N. C.           Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Carter, W. E.         So. Ind. E.         1922 Hillsbiror St.         Baltimore, Md.           Carty, Litchfield.         Fr. E. E.         212 10th         Selma, N. C.           Carvelin, R. Saul.         Fr. E. E.         212 10th         Selma, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Care, E. Edgar.         So. F. E.         218 South, Box 3550.         Fountain, N. C.           Care, Edgar.         So. F. E.         218 South, Box 3570.         Fountain, N. C.	Carawon, Bruce E.	So. Ag. E.	105 6th, Box 3241	Vanceboro, N. C.
Carey, Roland E.         Jr. For.         316 South, Box 3580.         Baltimore, Md.           Carney, James F.         So. C. E.         2406 Hillsbiror St.         Bethel, N. C.           Carpenter, Keith C.         So. Ag. Ed.         120 Cox Ave.         Lincolnton, N. C.           Carpenter, Millard N., Jr.         So. Ch. E.         Box 772.         Raleigh, N. C.           Carrell, S. E., Jr.         So. Ch. E.         Box 772.         Raleigh, N. C.           Carter, H. Earl.         Fr. Ag. Ed.         309 7th, Box 3375.         Maldison, N. C.           Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Carter, W. E.         So. Ind. E.         1922 Hillsbiror St.         Baltimore, Md.           Carty, Litchfield.         Fr. E. E.         212 10th         Selma, N. C.           Carvelin, R. Saul.         Fr. E. E.         212 10th         Selma, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Care, E. Edgar.         So. F. E.         218 South, Box 3550.         Fountain, N. C.           Care, Edgar.         So. F. E.         218 South, Box 3570.         Fountain, N. C.	Carey, Jack P.	.So. Arch. E	8 Maiden Lane	Kinston, N. C.
Carpenetr, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carpenetr, Keith C. So. Ag. Ed. 120 Cox Ave. Lincolnton, N. C. Carpenetr, Millard N., Jr. So. Tex. Mfg. 234 1911, Box 3774. Margarettsville, N. C. Carter, Mrs. C. G. Grad. Voc. Guid. Cameron Ct. Apt. P-1B. Wilmington, N. C. Carter, Mrs. C. G. Grad. Voc. Guid. Cameron Ct. Apt. P-1B. Wilmington, N. C. Carter, H. Earl Fr. Ag. Ed. 309 7th, Box 3375. Madison, N. C. Carter, H. Earl Fr. Ag. Ed. 309 7th, Box 3375. Madison, N. C. Carter, H. Earl Fr. Ag. Ed. 309 7th, Box 3375. Madison, N. C. Cartwright, Luke W., Jr. Jr. M. E. 1922 Hillsboro St. Baltimore, Md. Carty, Litchfeld. Fr. E. 2. 121 10th. Selma, N. C. Cartvalho, Raul. Fr. Ch. E. 68th. Swannanoa, N. C. Carvalho, Raul. Fr. Ch. E. 68th. Swannanoa, N. C. Carvellho, Raul. Fr. Ch. E. 68th. Swannanoa, N. C. Carvellho, Raul. Fr. Ch. E. 218 South, Box 3550. Durham, N. C. Case, C. Edgar. So. E. E. 218 South, Box 3550. Durham, N. C. Cate, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Cathey, Robert H. So. Tex. C. & D. 230 1911, Box 3770. Charlotte, N. C. Caton, J. C. Fr. Tex. Mfg. 206 6th, Box 3254. Concord, N. C. Cauble, Mark W., Jr. So. M. E. 1814 Park Drive. Winston-Salem, N. C. Chadens, G. Pete. Sr. For. 105 C. Washington, D. C. Chaffee, N. Louis. Jr. M. E. 126 A. Morganton, N. C. Chambers, John W. Fr. E. 309 8th. Asheville, N. C. Chambers, John W. Fr. E. 309 8th. Asheville, N. C. Chambers, John W. Fr. E. 204 9th. Greensboro, N. C. Chambers, John W. Fr. E. 204 9th. Greensboro, N. C. Chambers, John W. Fr. E. 204 9th. Greensboro, N. C. Chambers, John W. Fr. E. 204 9th. Greensboro, N. C. Chambers, John W. Fr. E. 204 9th. Greensboro, N. C. Chambers, John W. H. Grad. F. C. & P. B. C. Enterprise Street. Liberty, S. C. Charnock, Howard O., Jr. So. Ch. E. 312 South, Box 3576. Asheville, N. C. Chapaman, W. H. Grad. F. C. & P. B. C. Enterprise Street. Liberty, S. C. Charnock, Howard O., Jr. So. Ch. E. 312 South, Box 3576. Asheville, N. C. Chapaman, W. H. Grad. F. C. & P. B. C. Enterprise Street. Danville	Carey, Roland E	Jr. For	316 South, Box 3580	Baltimore, Md.
Carpenter, Keith C.         So. Ag. Ed.         120 Cox Ave.         Lincolnton, N. C.           Carpenter, Millard N., Jr.         So. Tex. Mfg.         234 1911, Box 3774.         Margarettsville, N. C.           Carter, Jr.         So. Ch. E.         Box 772.         Raleigh, N. C.           Carter, Mrs.         C.         Grad. Voc. Guid.         Cameron Ct. Apt. P-1B.         Wilmington, N. C.           Carter, H.         Earl.         Fr. Ag. Ed.         309 7th, Box 3375.         Madoson, N. C.           Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Carter, Litchfield.         Fr. E.         212 10th.         Selma, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Case, C. Edgar.         So. E. E.         218 South, Box 3550.         Fountain, N. C.           Cate, Eugene R.         Grad. M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. T. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Catolke, Mark W., Jr.         So. M.         E. 1814 Park Drive         Winston-Salem, N. C.           Chafee, N. Louis.         <	Carney, James F.	So. C. E	2406 Hillsboro St.	Bethel, N. C.
Carpenter, Millard N., Jr. So. Tex. Mfg. 234 1911, Box 3774. Margarettsville, N. C. Carroll, S. E., Jr. So. Ch. E. Box 772. Raleigh, N. C. Carter, Mrs. C. C. Grad. Voc. Guid. Cameron Ct. Apt. P-1B. Wilmington, N. C. Carter, W. E. So. Ind. E. S20 Cleveland St. Raleigh, N. C. Carter, W. E. So. Ind. E. S20 Cleveland St. Raleigh, N. C. Cartwright, Luke W., Jr. Jr. M. E. 1922 Hillsboro St. Baltimore, Md. Sclma, N. C. Cartwright, Luke W., Jr. Jr. M. E. 1922 Hillsboro St. Baltimore, Md. Sclma, N. C. Carvalho, Raul. Fr. Ch. E. 68 8th. Swannanoa, N. C. Carvalho, Raul. Fr. Ch. E. 68 8th. Swannanoa, N. C. Carvello, Raul. Fr. Ch. E. 68 8th. Swannanoa, N. C. Carvello, Raul. Fr. Ch. E. 218 South, Box 3550. Fountain, N. C. Case, C. Edgar. So. E. E. 218 South, Box 3550. Fountain, N. C. Cate, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Cate, Rugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Caton, J. C. Fr. Tex. Mfg. 206 6th, Box 3254. Concord, N. C. Caton, J. C. Fr. Tex. Mfg. 206 6th, Box 3254. Concord, N. C. Catolle, Mark W., Jr. So. M. E. 1814 Park Drive. Winston-Salem, N. C. Chaenber, G. Pete. Sr. For. 105 C. Washington, D. C. Chaffee, N. Louis. Jr. M. E. 126 A. Morganton, N. C. Chamblee, Douglas S. Fr. Ag. Ed. 107 8th. Zebulon, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chamblee, Graham V. Jr. For. 229 C. Zebulon, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chapman, W. H. Graad. St. Grad. St. St. St. St. St. St. St. St. St. St	Carpenter, Keith C	So. Ag. Ed	120 Cox Ave	Lincolnton, N. C.
Carroll, S. E., Jr. So. Ch. E. Box 772. Raleigh, N. C. Carter, Hrs. C. C. Grad. Voc. Guid. Cameron Ct. Apt. P-1B. Willmigton, N. C. Carter, H. Earl. Fr. Ag. Ed. 309 7th, Box 3375. Madison, N. C. Carter, W. E. So. Ind. E. 520 Cleveland St. Raleigh, N. C. Cartwright, Luke W., Jr. Jr. M. E. 1922 Hillsboro St. Baltimore, Md. Carty, Litchfield Fr. E. E. 212 10th Selma, N. C. Carvalho, Raul. Fr. Ch. E. 6 8th. Swannanoa, N. C. Carver, Irvin L. So. Ag. 112 Cox Ave. Durham, N. C. Case, C. Edgar. So. E. E. 218 South, Box 3550. Fountain, N. C. Cate, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Cate, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Cathey, Robert H. So. Tex. C. & D. 230 1911, Box 3770. Charlotte, N. C. Cauble, Mark W., Jr. So. M. E. 1814 Park Drive. Winston-Salem, N. C. Cauble, Mark W., Jr. So. M. E. 1814 Park Drive. Winston-Salem, N. C. Chaconas, G. Pete. Sr. For. 105 C. Washington, D. C. Chamblee, Douglas S. Fr. Ag. Ed. 107 8th. Asheville, N. C. Chamblee, Douglas S. Fr. Ag. Ed. 107 8th. Zebulon, N. C. Chamblee, Graham V. Jr. For. 229 C. Zebulon, N. C. Chamblee, Graham V. Jr. For. 229 C. Zebulon, N. C. Chamblee, Graham V. Jr. For. 229 C. Zebulon, N. C. Chamblee, Graham V. Jr. For. 229 C. Zebulon, N. C. Chamblee, Graham V. Jr. For. 212 C. Zebulon, N. C. Chamblee, Howard O., Jr. So. Ch. E. 312 South, Box 3586. Monroe, N. C. Champan, W. H. Grad. F. C. & P. B. 6 Enterprise Street. Liberty, S. C. Charonck, Howard O., Jr. So. Ch. E. 312 South, Box 3586. Monroe, N. C. Charonck, Howard O., Jr. So. Ch. E. 312 South, Box 3586. N. Wilkesboro, N. C. Charonck, Howard O., Jr. So. Ch. E. 312 South, Box 3586. N. C. Charonck, Howard O., Jr. So. Ch. E. 312 South, Box 3586. N. C. Charonck, Howard O., Jr. So. Ch. E. 312 South, Box 3586. N. Wilkesboro, N. C. Charonck, Howard O., Jr. So. Ch. E. 312 South, Box 3586. N. Wilkesboro, N. C. Charonck, Howard O., Jr. So. Ch. E. 312 South, Box 3586. N. Wilkesboro, N. C. Chark, D. A. Fr. M. E. 208 8th. Salisbury, N. C. Clark, P. G. Fr. F. E. 208 8th. Salisbury	Carpenter, Millard N. Ir	So Tev Mfg	234 1911 Roy 3774	Margarettsville N C
Carter, Mrs. C. C. Grad. Voc. Guid. Cameron Ct. Apt. P-1B. Willington, N. C. Carter, W. E. So. Ind. E. 309 7th, Box 3375 Madison, N. C. Carter, W. E. So. Ind. E. 520 Cleveland St. Raleigh, N. C. Cartwright, Luke W., Jr. Jr. M. E. 1922 Hilbsboro St. Baltimore, Md. Carty, Litchfield. Fr. E. 212 10th Selma, N. C. Carvalho, Raul. Fr. Ch. E. 6 8th Swannanoa, N. C. Carvalho, Raul. Fr. Ch. E. 6 8th Swannanoa, N. C. Carver, Irvin L. So. Ag. 112 Cox Ave. Durham, N. C. Case, C. Edgar. So. E. E. 218 South, Box 3550. Fountain, N. C. Cate, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Cate, Eugene R. Grad. M. E. 1304 Hillsboro St. Chapel Hill, N. C. Caton, J. C. Fr. Tex. Mfg. 206 6th, Box 3254. Concord, N. C. Caton, J. C. Fr. Tex. Mfg. 206 6th, Box 3254. Concord, N. C. Caton, J. C. Fr. Tex. Mfg. 206 6th, Box 3254. Concord, N. C. Caton, J. C. Fr. Tex. Mfg. 206 6th, Box 3254. Concord, N. C. Chaconas, G. Pete. Sr. For. 105 C. Washington, D. C. Chaffee, N. Louis. Jr. M. E. 126 A. Morganton, N. C. Chambers, John W. Fr. E. 309 8th. Asheville, N. C. Chamblee, Douglas S. Fr. Ag. Ed. 107 8th. Zebulon, N. C. Chamblee, Douglas S. Fr. Ag. Ed. 107 8th. Zebulon, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chamblee, James P. Fr. Ch. E. 205 South, Box 3586. Monroe, N. C. Charnock, Howard O., Jr. So. Ch. E. 218 South, Box 3576. Asheville, N. C. Salisbury, N. C. Salisbury, N. C. Salisbury, N. C. Chesnutt, Rayburn L., Jr. Fr. E. E. 212 C. Snow Hill, N. C. Childres, Mrs. I. C. Sp. Voc. Guid. 130 Hawthorne Rd. Raleigh, N. C. Childres, Reid W. Fr. Ag. 237 South, Box 3584. Met. Airy, N. C. Chark, David M. Fr. Ag. 234 8th. Met. Airy, N. C. Clark, David M. Fr. Ag. 234 8th. Lilesville, N. C. Clark, David M. Fr. Ce. E. 21 Enterprise St. Daville, Va. Clark, J. Reid Fr. Ch. E. 208 8th. Salisbury,	Carroll, S. E., Ir.	So. Ch. E.	Box 772	Raleigh, N. C.
Carter, W. E.         So. Ind. E.         520 Cleveland St.         Raleigh, N. C.           Cartwight, Luke W., Jr. Jr. M. E.         1922 Hillsboro St.         Baltimore, Md.           Carty, Litchfield.         Fr. E.         212 10th         Selma, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Case, C. Edgar.         So. E. E.         218 South, Box 3550         Fountain, N. C.           Cate, Eugene R.         Grad. M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254         Concord, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254         Concord, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254         Concord, N. C.           Chaconas, G. Pete.         Sr. For.         105 C         Washington, D. C.           Chadeonas, G. Pete.         Sr. For.         105 C         Washington, D. C.           Chambers, John W. Fr. E. E.         309 8th.         Asheville, N. C.           Chamblee, Jouglas S. Fr. Ag. Ed. 107 8th.         Zebulon, N. C.           Chamblee, James P. Fr. Ch. E.         204 9th.         Zebulon, N. C.           Chamblee, James P. Fr. Ch. E.         204 9th.         Greensboro,	Carter, Mrs. C. C.	Grad. Voc. Guid	Cameron Ct. Apt. P-1B	Wilmington, N. C.
Carry, Litchheld         Fr. E. E.         212 10th         Selma, N. C.           Carvelro, Raul         Fr. Ch. E.         68 8th         Swannanoa, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Cate, Eugen R.         Grad, M. E.         218 South, Box 3550.         Fountain, N. C.           Cate, Eugen R.         Grad, M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Chadle, Mark W., Jr. So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chadle, Mark W., Jr. So. M. E.         126 A.         Morganton, N. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chamblee, Jouglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, Graham V.	Carter, H. Earl.	Fr. Ag. Ed	309 7th, Box 3375	Madison, N. C.
Carry, Litchheld         Fr. E. E.         212 10th         Selma, N. C.           Carvelro, Raul         Fr. Ch. E.         68 8th         Swannanoa, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Cate, Eugen R.         Grad, M. E.         218 South, Box 3550.         Fountain, N. C.           Cate, Eugen R.         Grad, M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Chadle, Mark W., Jr. So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chadle, Mark W., Jr. So. M. E.         126 A.         Morganton, N. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chamblee, Jouglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, Graham V.	Carter, W. E.	So. Ind. E	520 Cleveland St	Raleigh, N. C.
Carry, Litchheld         Fr. E. E.         212 10th         Selma, N. C.           Carvelro, Raul         Fr. Ch. E.         68 8th         Swannanoa, N. C.           Carver, Irvin L.         So. Ag.         112 Cox Ave.         Durham, N. C.           Cate, Eugen R.         Grad, M. E.         218 South, Box 3550.         Fountain, N. C.           Cate, Eugen R.         Grad, M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Chadle, Mark W., Jr. So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chadle, Mark W., Jr. So. M. E.         126 A.         Morganton, N. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chamblee, Jouglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, Graham V.	Cartwright, Luke W., Jr	Jr. M. E	1922 Hillsboro St	Baltimore, Md.
Case, C. Edgar         So. E. E.         218 South, Box 3550         Fountain, N. C.           Cate, Eugene R.         Grad, M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. Ex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Cauble, Mark W., Jr.         So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chaconas, G. Pete.         Sr. For.         105 C.         Washington, D. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chambers, John W.         Fr. E.         309 8th.         Asheville, N. C.           Chamblee, Douglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chandblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chandblee, James P.         Fr. Ch. E.         232 South, Box 3586         Monroe           Charlotte, Howard O., Jr.         So. Ch. E.         312 South, Box 3586         Asheville, N. C. </td <td>Carty, Litchheld</td> <td>Fr. E. E</td> <td>212 10th</td> <td>Selma, N. C.</td>	Carty, Litchheld	Fr. E. E	212 10th	Selma, N. C.
Case, C. Edgar         So. E. E.         218 South, Box 3550         Fountain, N. C.           Cate, Eugene R.         Grad, M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. Ex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Cauble, Mark W., Jr.         So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chaconas, G. Pete.         Sr. For.         105 C.         Washington, D. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chambers, John W.         Fr. E.         309 8th.         Asheville, N. C.           Chamblee, Douglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chandblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chandblee, James P.         Fr. Ch. E.         232 South, Box 3586         Monroe           Charlotte, Howard O., Jr.         So. Ch. E.         312 South, Box 3586         Asheville, N. C. </td <td>Carvalho, Raul</td> <td>.Fr. Ch. E</td> <td>6 8th</td> <td>Swannanoa, N. C.</td>	Carvalho, Raul	.Fr. Ch. E	6 8th	Swannanoa, N. C.
Cate, Eugene R.         Grad. M. E.         1304 Hillsboro St.         Chapel Hill, N. C.           Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Cauble, Mark W., Jr.         So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chadeonas, G. Pete.         Sr. For.         105 C.         Washington, D. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chambers, John W.         Fr. E.         309 8th.         Asheville, N. C.           Chamblee, Douglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chanyman, W. H.         Grad. F. C. & P. B. 6 Enterprise Street         Liberty, S. C.           Charnock, Howard O., Jr. So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Chesnutt, Maxwell P.         So. F. C. & P. B. 209 South, Box 3576.         Asheville, N. C.           Chesnutt, Rayburn L., Jr. Fr. E.         221 C.         Snow Hill, N. C.           <	Carver, Irvin L	-So. Ag	112 Cox Ave	Durham, N. C.
Cathey, Robert H.         So. Tex. C. & D.         230 1911, Box 3770.         Charlotte, N. C.           Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Cauble, Mark W., Jr.         So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chaconas, G. Pete.         Sr. For.         105 C.         Washington, D. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chambres, John W.         Fr. E.         309 8th.         Asheville, N. C.           Chamblee, Douglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chany, Hubert C.         So. Ag. Ed.         322 South, Box 3586.         Monroe, N. C.           Channock, Howard O., Jr.         So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Charse, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chestnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541.         Turkey. N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         221 C.         Snow Hill,	Case, C. Edgar	.So. E. E	218 South, Box 3550	Fountain, N. C.
Caton, J. C.         Fr. Tex. Mfg.         206 6th, Box 3254.         Concord, N. C.           Cauble, Mark W., Jr.         So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chaconas, G. Pete.         Sr. For.         105 C.         Washington, D. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chamblee, Douglas S.         Fr. E. E.         309 8th.         Asheville, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chaney, Hubert C.         So. Ag. Ed.         322 South, Box 3586.         Monroe, N. C.           Channock, Howard O., Jr.         So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Chasnock, Howard O., Jr.         So. F. C. & Pl. B.         209 South, Box 3541.         Turkey, N. C.           Chestnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541.         Turkey, N. C.           Chestnutt, Rayburn L., Jr.         Fr. E. E.         221 C.         Snow Hill, N. C.           Childress, Mrs. I.         C.         Sp. Voc. Guid.	Carles Data II	Grad. M. E	1304 Hillsboro St	Chapel Hill, N. C.
Cauble, Mark W., Jr.         So. M. E.         1814 Park Drive.         Winston-Salem, N. C.           Chaconas, G. Pete.         Sr. For.         105 C.         Washington, D. C.           Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chamblees, John W.         Fr. E. E.         309 8th.         Asheville, N. C.           Chamblee, Douglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chander, Hubert C.         So. Ag. Ed.         322 South, Box 3586.         Monroe, N. C.           Chapman, W. H.         Grad. F. C. & P. B. 6 Enterprise Street         Liberty, S. C.           Charney, Hobart O., Jr.         So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Charney, Howard O., Jr.         So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Charney, Howard O., Jr.         So. F. C. & Pl. B. 209 South, Box 3576.         Asheville, N. C.           Chestoutt, R. Salvatter, R. Salvatter, R. Salvatter, R. C.         Turkey, N. C.	Catney, Robert H	50. Tex. C. & D	230 1911, Box 3770	Canada N. C.
Chaconas, G. Pete. Sr. For. 105 C Washington, D. C. Chaffee, N. Louis. Jr. M. E. 126 A Morganton, N. C. Chambers, John W. Fr. E. E. 309 8th. Asheville, N. C. Chamblee, Douglas S. Fr. Ag. Ed. 107 8th. Zebulon, N. C. Chamblee, Graham V. Jr. For. 229 C Zebulon, N. C. Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chaney, Hubert C. So. Ag. Ed. 322 South, Box 3586 Monroe, N. C. Chapman, W. H. Grad. F. C. & P. B. 6 Enterprise Street. Liberty, S. C. Charnock, Howard O., Jr. So. Ch. E. 312 South, Box 3576 Asheville, N. C. Chase, Charles C. Sr. Tex. Mfg. 2705 Van Dyke St. Salisbury, N. C. Chesnutt, Maxwell P. So. F. C. & Pl. B. 209 South, Box 3541 Turkey. N. C. Chesnutt, Rayburn L., Jr. Fr. E. 221 C Snow Hill, N. C. Childers, Mrs. I. C. Sp. Voc. Guid. 130 Hawthorne Rd. Raleigh, N. C. Childers, Mrs. I. C. Sp. Voc. Guid. 130 Hawthorne Rd. Raleigh, N. C. Church, H. Edmond, Jr. So. E. E. 8 Ferndell Lane. Franklin, N. C. Church, John R. Fr. Ag. 123 7th, Box 3323. Raeford, N. C. Church, John R. Fr. Ag. 304 South, Box 3568. N. Wilkesboro, N. C. Clark, David M. Fr. M. E. 314 8th. Mt. Airy, N. C. Clark, E. A. Fr. Cer. E. 21 Enterprise St. Danville, Va. Clark, Foy. Fr. M. E. 1 Fieldhouse. Mt. Airy, N. C. Clark, J. Reid. Fr. Ch. E. 208 8th. Salisbury, N. C. Clark, J. Reid. Fr. Ch. E. 208 8th. Salisbury, N. C. Clark, J. Richardson. Fr. M. E. 234 8th. Lilesville, N. C. Clark, Wm. C. Fr. Ag. 2316 Hillsboro St. Charlotte, N. C. Clark, Wm. C. Fr. Ag. 211 10th. West Springfield, Mass. Clark, Wm. C. Fr. Ag. 211 10th. West Springfield, Mass. Clark, W. Murray, Jr. Jr. Tex. Mfg. 2316 Hillsboro St. Charlotte, N. C. Clarke, G. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clarke, G. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clarke, G. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clarke, G. E. Fr. M. E. Power Plant. Asheville, N. C. Cleement, Hugh M. Fr. M. E. 88th. Scony Point, N. C. Cleement, Hugh M. Fr. M. E. 88th. Scony Point, N. C.	Couble Mork W. In	-rr. lex, Mig	206 otn, box 3254	Concord, N. C.
Chaffee, N. Louis.         Jr. M. E.         126 A.         Morganton, N. C.           Chamblers, John W.         Fr. E. E.         309 8th.         Asheville, N. C.           Chamblee, Douglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chaney, Hubert C.         So. Ag. Ed.         322 South, Box 3586         Monroe, N. C.           Chapman, W. H.         Grad. F. C. & P. B. 6 Enterprise Street.         Liberty, S. C.           Charnock, Howard O., Jr         So. Ch. E.         312 South, Box 3576         Asheville, N. C.           Chase, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chessnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541         Turkey, N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         221 C.         Snow Hill, N. C.           Childress, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Reid W.         Fr. Ag.         123 7th, Box 3323         Raeford,	Channes C Poto	-50. IVI. E	1814 Park Drive	Winston-Salem, N. C.
Chambers, John W.         Fr. E. E.         309 8th.         Asheville, N. C.           Chamblee, Douglas S.         Fr. Ag. Ed.         107 8th.         Zebulon, N. C.           Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chaney, Hubert C.         So. Ag. Ed.         322 South, Box 3586.         Monroe, N. C.           Chapman, W. H.         Grad. F. C. & P. B. 6 Enterprise Street.         Liberty, S. C.           Charnock, Howard O., Jr.         So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Chase, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chesnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541.         Turkey. N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childers, Reid W.         Fr. Ag.         123 7th, Box 3323.	Chaffee N Louis	-Sr. ror	116 A	Morganton N C
Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chaney, Hubert C.         So. Ag. Ed.         332 South, Box 3586         Monroe, N. C.           Chapman, W. H.         Grad. F. C. & P. B. 6 Enterprise Street.         Liberty, S. C.           Charnock, Howard O., Jr.         So. Ch. E.         312 South, Box 3576         Asheville, N. C.           Chase, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chesnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541         Turkey, N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Reid W.         Fr. Ag.         123 7th, Box 3323         Raeford, N. C.           Church, H. Edmond, Jr.         So. E.         8 Ferndell Lane.         Franklin, N. C.           Church, H. Edmond, Jr.         So. E.         8 Ferndell Lane.         Franklin, N. C.           Clark, David M.         Fr. M. E.         314 8th	Chambers John W	-Jr. IVI. E Fr F F	200 9th	Ashavilla N C
Chamblee, Graham V.         Jr. For.         229 C.         Zebulon, N. C.           Chamblee, James P.         Fr. Ch. E.         204 9th.         Greensboro, N. C.           Chaney, Hubert C.         So. Ag. Ed.         332 South, Box 3586         Monroe, N. C.           Chapman, W. H.         Grad. F. C. & P. B. 6 Enterprise Street.         Liberty, S. C.           Charnock, Howard O., Jr.         So. Ch. E.         312 South, Box 3576         Asheville, N. C.           Chase, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chesnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541         Turkey, N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Reid W.         Fr. Ag.         123 7th, Box 3323         Raeford, N. C.           Church, H. Edmond, Jr.         So. E.         8 Ferndell Lane.         Franklin, N. C.           Church, H. Edmond, Jr.         So. E.         8 Ferndell Lane.         Franklin, N. C.           Clark, David M.         Fr. M. E.         314 8th	Chamblee, Douglas S	Fr Ac Fd	107 8th	Zehulon N C
Chamblee, James P. Fr. Ch. E. 204 9th. Greensboro, N. C. Chaney, Hubert C. So. Ag. Ed. 322 South, Box 3586. Monroe, N. C. Chapman, W. H. Grad. F. C. & P. B. 6 Enterprise Street. Liberty, S. C. Charnock, Howard O., Jr. So. Ch. E. 312 South, Box 3576. Asheville, N. C. Chase, Charles C. Sr. Tex. Mfg. 2705 Van Dyke St. Salisbury, N. C. Chesnutt, Maxwell P. So. F. C. & Pl. B. 209 South, Box 3541. Turkey, N. C. Chestnutt, Rayburn L., Jr. Fr. E. E. 221 C. Snow Hill, N. C. Childres, Mrs. I. C. Sp. Voc. Guid. 130 Hawthorne Rd. Raleigh, N. C. Childress, Reid W. Fr. Ag. 123 7th, Box 3323. Raeford, N. C. Childress, Reid W. Fr. Ag. 304 South, Box 3568. N. Wilkesboro, N. C. Church, H. Edmond, Jr. So. E. E. 8 Ferndell Lane. Franklin, N. C. Church, John R. Fr. Ag. 304 South, Box 3568. N. Wilkesboro, N. C. Clark, David M. Fr. M. E. 314 8th. Mt. Airy, N. C. Clark, E. A. Fr. Cer. E. 21 Enterprise St. Danville, Va. Clark, Foy. Fr. M. E. 1 Fieldhouse. Mt. Airy, N. C. Clark, J. Reid. Fr. Ch. E. 208 8th. Salisbury, N. C. Clark, J. Reid. Fr. Ch. E. 208 8th. Salisbury, N. C. Clark, J. Richardson Fr. M. E. 15 Woodburn Rd. Hull, Mass. Clark, T. Jack. Fr. Tex. Mfg. 2316 Hillsboro St. Charlotte, N. C. Clark, Wm. C. Fr. Ag. 211 10th. West Springfield, Mass. Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clark, Wm. C. Fr. Ag. 211 10th. West Springfield, Mass. Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clark, Warvin J. So. Ag. 103 5th, Box 3203. Hester, N. C. Clark, Gale P. Fr. M. E. Power Plant. Asheville, N. C. Cleement, Hugh M. Fr. M. E. 8 8th. Stony Point, N. C.	Chamblee, Graham V.	Ir For	229 C	Zebulon, N. C.
Chaney, Hubert C. So. Ag. Ed. 322 South, Box 3586 Monroe, N. C. Chapman, W. H. Grad. F. C. & P. B. 6 Enterprise Street Liberty, S. C. Charnock, Howard O., Jr. So. Ch. E. 312 South, Box 3576 Asheville, N. C. Chase, Charles C. Sr. Tex. Mfg. 2705 Van Dyke St. Salisbury, N. C. Chesnutt, Maxwell P. So. F. C. & Pl. B. 209 South, Box 3541 Turkey, N. C. Chesnutt, Rayburn L., Jr. Fr. E. 221 C Snow Hill, N. C. Childres, Mrs. I. C. Sp. Voc. Guid. 130 Hawthorn Rd. Raleigh, N. C. Childress, Reid W. Fr. Ag. 123 7th, Box 3323 Raeford, N. C. Childress, Reid W. Fr. Ag. 123 7th, Box 3323 Raeford, N. C. Church, H. Edmond, Jr. So. E. E. 8 Ferndell Lane. Franklin, N. C. Church, John R. Fr. Ag. 304 South, Box 3568 N. Wilkesboro, N. C. Clark, David M. Fr. M. E. 314 8th. Mt. Airy, N. C. Clark, E. A. Fr. Cer. E. 21 Enterprise St. Danville, Va. Clark, Foy. Fr. M. E. 1 Fieldhouse. Mt. Airy, N. C. Clark, J. Reid. Fr. Ch. E. 208 8th. Salisbury, N. C. Clark, J. Reid. Fr. Ch. E. 234 8th. Lilesville, N. C. Clark, J. Richardson Fr. M. E. 234 8th. Lilesville, N. C. Clark, Norman N. Sr. C. E. 125 Woodburn Rd. Hull, Mass. Clark, T. Jack. Fr. Tex. Mfg. 2316 Hillsboro St. Charlotte, N. C. Clark, Wm. C. Fr. Ag. 211 10th. West Springfield, Mass. Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clark, M. Marvin J. So. Ag. 103 5th, Box 3203 Hester, N. C. Clark, Gale P. Fr. M. E. Power Plant. Asheville, N. C. Cleement, Hugh M. Fr. M. E. 8 8th. Stony Point, N. C.	Chamblee, James P.	Fr. Ch. E.	204 9th	Greensboro, N. C.
Chapman, W. H.         Grad. F. C. & P. B. 6 Enterprise Street.         Liberty, S. C.           Charnock, Howard O., Jr.         So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Chase, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chesnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541.         Turkey, N. C.           Chestnutt, Rayburn L., Jr. Fr. E. E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Reid W.         Fr. Ag.         123 7th, Box 3323         Raeford, N. C.           Church, H. Edmond, Jr.         So. E. E.         8 Ferndell Lane.         Franklin, N. C.           Church, John R.         Fr. Ag.         304 South, Box 3568.         N. Wilkesboro, N. C.           Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse         Mt. Airy, N. C.           Clark, J. Reid.         Fr. Ch. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         125 Woodburn Rd.         Hull,	Chaney, Hubert C.	So. Ag. Ed.	322 South, Box 3586	Monroe, N. C.
Charnock, Howard O., Jr.         So. Ch. E.         312 South, Box 3576.         Asheville, N. C.           Chase, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chesnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541.         Turkey, N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childers, Reid W.         Fr. Ag.         123 7th, Box 3323.         Raeford, N. C.           Church, H. Edmond, Jr.         So. E.         8 Ferndell Lane.         Franklin, N. C.           Church, H. Edmond, Jr.         So. E.         8 Ferndell Lane.         Franklin, N. C.           Church, John R.         Fr. Ag.         304 South, Box 3568.         N. Wilkesboro, N. C.           Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, David M.         Fr. M. E.         21 Enterprise St.         Danville, Va.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse.         Mt. Airy, N. C.           Clark, J. Reid         Fr. M. E.         208 8th.	Chapman, W. H.	Grad. F. C. & P. B	6 Enterprise Street	Liberty, S. C.
Chase, Charles C.         Sr. Tex. Mfg.         2705 Van Dyke St.         Salisbury, N. C.           Chesnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541.         Turkey, N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Reid W.         Fr. Ag.         123 7th, Box 3323.         Raeford, N. C.           Church, H. Edmond, Jr.         So. E. E.         8 Ferndell Lane.         Franklin, N. C.           Church, John R.         Fr. Ag.         304 South, Box 3568.         N. Wilkesboro, N. C.           Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse         Mt. Airy, N. C.           Clark, J. Reid.         Fr. Ch. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         125 Woodburn Rd.         Lilesville, N. C.           Clark, Norman N.         Sr. C. E.         125 Woodburn Rd.         Hull, Mass.           Clark, Wm. C.         Fr. Ag.         2316 Hillsboro St.         Charlotte, N. C.	Charnock, Howard O., Jr	-So. Ch. E	312 South, Box 3576	Asheville, N. C.
Chesnutt, Maxwell P.         So. F. C. & Pl. B.         209 South, Box 3541         Turkey, N. C.           Chestnutt, Rayburn L., Jr. Fr. E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Reid W.         Fr. Ag.         123 7th, Box 3323         Raeford, N. C.           Church, H. Edmond, Jr.         So. E. E.         8 Ferndell Lane.         Franklin, N. C.           Church, John R.         Fr. Ag.         304 South, Box 3568         N. Wilkesboro, N. C.           Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, David M.         Fr. M. E.         21 Enterprise St.         Danville, Va.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse.         Mt. Airy, N. C.           Clark, J. Richardson         Fr. M. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         234 8th.         Lilesville, N. C.           Clark, Norman N.         Sr. C. E.         125 Woodburn Rd.         Hull, Mass.           Clark, T. Jack         Fr. Tex. Mfg.         2316 Hillsboro St.         Charlotte, N. C. <td>Chase, Charles C</td> <td>-Sr. Tex. Mfg</td> <td>2705 Van Dvke St</td> <td>Salisbury, N. C.</td>	Chase, Charles C	-Sr. Tex. Mfg	2705 Van Dvke St	Salisbury, N. C.
Chestnutt, Rayburn L., Jr. Fr. E. E.         221 C.         Snow Hill, N. C.           Childers, Mrs. I. C.         Sp. Voc. Guid.         130 Hawthorne Rd.         Raleigh, N. C.           Childress, Reid W.         Fr. Ag.         123 7th, Box 3323.         Raeford, N. C.           Church, H. Edmond, Jr.         So. E. E.         8 Ferndell Lane.         Franklin, N. C.           Church, John R.         Fr. Ag.         304 South, Box 3568.         N. Wilkesboro, N. C.           Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse.         Mt. Airy, N. C.           Clark, J. Reid.         Fr. Ch. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         234 8th.         Lilesville, N. C.           Clark, Norman N.         Sr. C. E.         125 Woodburn Rd.         Hull, Mass.           Clark, T. Jack.         Fr. Tex. Mfg.         2316 Hillsboro St.         Charlotte, N. C.           Clark, Wm. C.         Fr. Ag.         211 10th.         West Springfield, Mass.           Clark, W. Murray, Jr.         Jr. Tex. Mgt.         2316 Hillsboro St.         Charlotte, N. C.	Chesnutt, Maxwell P	.So. F. C. & Pl. B.	209 South, Box 3541	Turkey, N. C.
Childress, Reid W.         Fr. Ag.         123 7th, Box 3323         Raeford, N. C.           Church, H. Edmond, Jr.         So. E. E.         8 Ferndell Lane         Franklin, N. C.           Church, John R.         Fr. Ag.         304 South, Box 3568         N. Wilkesboro, N. C.           Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse         Mt. Airy, N. C.           Clark, J. Reid.         Fr. Ch. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         234 8th.         Lilesville, N. C.           Clark, Norman N.         Sr. C. E.         125 Woodburn Rd.         Hull, Mass.           Clark, T. Jack         Fr. Tex. Mfg.         2316 Hillsboro St.         Charlotte, N. C.           Clark, W. M.         Fr. Ag.         2316 Hillsboro St.         Charlotte, N. C.           Clark, W. Murray, Jr.         Jr. Tex. Mgt.         2316 Hillsboro St.         Charlotte, N. C.           Clarke, C. E.         So. Ch. E.         125 Woodburn Rd.         Kenly, N. C.	Chestnutt, Rayburn L., Jr.	Fr. E. E.	221 C	Snow Hill, N. C.
Childress, Reid W.         Fr. Ag.         123 7th, Box 3323         Raeford, N. C.           Church, H. Edmond, Jr.         So. E. E.         8 Ferndell Lane         Franklin, N. C.           Church, John R.         Fr. Ag.         304 South, Box 3568         N. Wilkesboro, N. C.           Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse         Mt. Airy, N. C.           Clark, J. Reid.         Fr. Ch. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         234 8th.         Lilesville, N. C.           Clark, Norman N.         Sr. C. E.         125 Woodburn Rd.         Hull, Mass.           Clark, T. Jack         Fr. Tex. Mfg.         2316 Hillsboro St.         Charlotte, N. C.           Clark, W. M.         Fr. Ag.         2316 Hillsboro St.         Charlotte, N. C.           Clark, W. Murray, Jr.         Jr. Tex. Mgt.         2316 Hillsboro St.         Charlotte, N. C.           Clarke, C. E.         So. Ch. E.         125 Woodburn Rd.         Kenly, N. C.	Childers, Mrs. I. C	.Sp. Voc. Guid	130 Hawthorne Rd	Raleigh, N. C.
Clark, David M.         Fr. M. E.         314 8th.         Mt. Airy, N. C.           Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse.         Mt. Airy, N. C.           Clark, J. Reid.         Fr. Ch. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         234 8th.         Lilesville, N. C.           Clark, Norman N.         Sr. C. E.         125 Woodburn Rd.         Hull, Mass.           Clark, T. Jack.         Fr. Tex. Mfg.         2316 Hillsboro St.         Charlotte, N. C.           Clark, Wm. C.         Fr. Ag.         211 10th.         West Springfield, Mass.           Clark, W. Murray, Jr.         Jr. Tex. Mgt.         2316 Hillsboro St.         Charlotte, N. C.           Clarke, C. E.         So. Ch. E.         125 Woodburn Rd.         Kenly, N. C.           Clarke, C. E.         So. Ag.         103 5th, Box 3203         Hester, N. C.           Clee, Gale P.         Fr. M. E.         Power Plant         Asheville, N. C.           Clement, Hugh M.         Fr. M. E.         8 8th         Stony Point, N. C.	Childress, Reid W.	Fr Ao	123 7th. Box 3323	Raeford, N. C.
Clark, David M.       Fr. M. E.       314 8th.       Mt. Airy, N. C.         Clark, E. A.       Fr. Cer. E.       21 Enterprise St.       Danville, Va.         Clark, Foy.       Fr. M. E.       1 Fieldhouse.       Mt. Airy, N. C.         Clark, J. Reid.       Fr. Ch. E.       208 8th.       Salisbury, N. C.         Clark, J. Richardson       Fr. M. E.       234 8th.       Lilesville, N. C.         Clark, Norman N.       Sr. C. E.       125 Woodburn Rd.       Hull, Mass.         Clark, T. Jack.       Fr. Tex. Mfg.       2316 Hillsboro St.       Charlotte, N. C.         Clark, Wm. C.       Fr. Ag.       211 10th.       West Springfield, Mass.         Clark, W. Murray, Jr.       Jr. Tex. Mgt.       2316 Hillsboro St.       Charlotte, N. C.         Clarke, C. E.       So. Ch. E.       125 Woodburn Rd.       Kenly, N. C.         Clarke, G. E.       So. Ag.       103 5th, Box 3203       Hester, N. C.         Clee, Gale P.       Fr. M. E.       Power Plant       Asheville, N. C.         Clement, Hugh M.       Fr. M. E.       8 8th       Stony Point, N. C.	Church, H. Edmond, Jr	So. E. E	8 Ferndell Lane	Franklin, N. C.
Clark, E. A.         Fr. Cer. E.         21 Enterprise St.         Danville, Va.           Clark, Foy.         Fr. M. E.         1 Fieldhouse         Mt. Airy, N. C.           Clark, J. Reid.         Fr. Ch. E.         208 8th.         Salisbury, N. C.           Clark, J. Richardson         Fr. M. E.         234 8th.         Lilesville, N. C.           Clark, Norman N.         Sr. C. E.         125 Woodburn Rd.         Hull, Mass.           Clark, T. Jack         Fr. Tex. Mfg.         2316 Hillsboro St.         Charlotte, N. C.           Clark, Wm. C.         Fr. Ag.         211 10th.         West Springfield, Mass.           Clark, W. Murray, Jr.         Jr. Tex. Mgt.         2316 Hillsboro St.         Charlotte, N. C.           Clarke, C. E.         So. Ch. E.         125 Woodburn Rd.         Kenly, N. C.           Clay, Marvin J.         So. Ag.         103 5th, Box 3203         Hester, N. C.           Clee, Gale P.         Fr. M. E.         Power Plant         Asheville, N. C.           Clement, Hugh M.         Fr. M. E.         8 8th         Stony Point, N. C.	Church, John R.	Fr. Ag	304 South, Box 3568	N. Wilkesboro, N. C.
Clark, Foy	Clark, David M.	Fr. M. E	314 8th	Mt. Airy, N. C.
Clark, J. Reid	Clark, E. A.	Fr. Cer. E	21 Enterprise St	Danville, Va.
Clark, J. Richardson       Fr. M. E.       234 8th       Lilesville, N. C.         Clark, Norman N.       Sr. C. E.       125 Woodburn Rd.       Hull, Mass.         Clark, T. Jack       Fr. Tex. Mfg.       2316 Hillsboro St.       Charlotte, N. C.         Clark, Wm. C.       Fr. Ag.       211 10th       West Springfield, Mass.         Clark, W. Murray, Jr.       Jr. Tex. Mgt.       2316 Hillsboro St.       Charlotte, N. C.         Clarke, C. E.       So. Ch. E.       125 Woodburn Rd.       Kenly, N. C.         Clay, Marvin J.       So. Ag.       103 5th, Box 3203       Hester, N. C.         Clee, Gale P.       Fr. M. E.       Power Plant       Asheville, N. C.         Clement, Hugh M.       Fr. M. E.       8 8th       Stony Point, N. C.	Clark, roy	Fr. M. E	I Fieldhouse	Mt. Airy, N. C.
Clark, Norman N. Sr. C. E. 125 Woodburn Rd. Hull, Mass. Clark, T. Jack Fr. Tex. Mfg. 2316 Hillsboro St. Charlotte, N. C. Clark, Wm. C. Fr. Ag. 211 10th. West Springfield, Mass. Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clark, C. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clay, Marvin J. So. Ag. 103 5th, Box 3203 Hester, N. C. Clee, Gale P. Fr. M. E. Power Plant Asheville, N. C. Clement, Hugh M. Fr. M. E. 8 8th Stony Point, N. C.	Clark, J. Reid	Fr. Ch. E	208 8th	Salisbury, N. C.
Clark, I. Jack Fr. Tex. Mfg. 2316 Hillsboro St. Charlotte, N. C. Clark, Wm. C. Fr. Ag. 211 10th West Springfield, Mass. Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clarke, C. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clay, Marvin J. So. Ag. 103 5th, Box 3203 Hester, N. C. Clee, Gale P. Fr. M. E. Power Plant Asheville, N. C. Clement, Hugh M. Fr. M. E. 8 8th Stony Point, N. C.	Clark Norman N	.rr. IVI. E	125 Woodhum DJ	Luli Mass
Clark, Wm. C. Fr. Ag. 211 10th. West Springfield, Mass. Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clarke, C. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clay, Marvin J. So. Ag. 103 5th, Box 3203 Hester, N. C. Clee, Gale P. Fr. M. E. Power Plant. Asheville, N. C. Clement, Hugh M. Fr. M. E. 8 8th Stony Point, N. C.	Clark T Jack	St. C. E	2216 Uillahora C+	Charlotte N C
Clark, W. Murray, Jr. Jr. Tex. Mgt. 2316 Hillsboro St. Charlotte, N. C. Clarke, C. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clay, Marvin J. So. Ag. 103 5th, Box 3203 Hester, N. C. Clee, Gale P. Fr. M. E. Power Plant Asheville, N. C. Clement, Hugh M. Fr. M. E. 8 8th Stony Point, N. C.	Clark Wm C	Fr. Ac.	211 10+P	West Springfield Mass
Clarke, C. E. So. Ch. E. 125 Woodburn Rd. Kenly, N. C. Clay, Marvin J. So. Ag. 103 5th, Box 3203 Hester, N. C. Clee, Gale P. Fr. M. E. Power Plant Asheville, N. C. Clement, Hugh M. Fr. M. E. 8 8th Stony Point, N. C.	Clark W Museau Je	Ir Tor Man	2316 Hillshore C+	Charlotte N C
Clay, Marvin J	Clarke C F	.ji. i ex, ivigt	125 Woodburn DJ	Kenly N C
Clement, Hugh M. Fr. M. E. Power Plant Asheville, N. C. Clement, Hugh M. Stony Point, N. C.	Clay, Marvin I	So Aa	103 5th Roy 3203	Hester N C
Clement, Hugh M. Fr. M. E. 88th Stony Point, N. C.	Clee, Gale P.	Fr M F	Power Plant	Asheville, N. C.
Clements Rob M. Le. L. T., C. & D. 110 C. 1 D. 5027	Clement, Hugh M.	Fr M E	8 8th	Stony Point, N. C.
Cicinents, Fab M., Ir. Lex. C. & D. 210 South. Box 562/ Greensboro, N. C.	Clements, Fab M., Ir.	Ir. Tex. C. & D	.210 South, Box 5627	Greensboro, N. C.
Clemmons, Clifton W. Fr. Ag. 328 7th, Box 3394 Supply, N. C.	Clemmons, Clifton W	Fr. Ag.	328 7th, Box 3394	Supply, N. C.

Name	Classification	School Address	Home Address
Clifton, David S.	Fr. M. E.	16 8th	Warsaw, N. C.
Cline, Wm. E.	Ir. Ch. E	2004 Hillsboro St.	Charleston, W. Va.
Cline, Walter T	Sr. Tex. Mfg	205 Chamberlain St	Raleigh, N. C.
Clovd, Ed. L., Ir.	.Grad. Ind. Arts	2224 Hillsboro St	Raleigh, N. C.
Cobb, Herbert H.	Fr. Dairy Mfg	302 4th, Box 3128	Wadesboro, N. C.
Cobb, J. D., Jr	Fr. Gen. Engr	_123 8th	Lumber Bridge, N. C.
Coble, Ed. F.	Fr. Tex. Mfg	228 7th, Box 3360	Winston-Salem, N. C.
Coble, George R	.So. Ag. Ed	225 South, Box 3557	Greensboro, N. C.
Cochran, W. B., Jr	.Jr. C. E	2226 Hillsboro St	Raleigh, N. C.
Coffield, C. C.	Fr. E. E.	.105 8th	Ellenboro, N. C.
Coffman, Selby E., Jr	Jr. An. Prod	.1 South, Box 3597	Wilson, N. C.
Cole, A. B.	.Fr. For	302 7th, Box 3368	Denton, N. C.
Cole, Floyd, 1	Fr. Ag.	Withdrew Sept. 18	English Civic N. C.
Cole, Roger D	rr. Ag	otn	Wilmin and N. C.
Colondo Frank	Sr. C. E	.3 8thY. M. C. A., Box 5276	Morehead City N. C.
Collier P Wade	So. Ch. E	321 South Roy 3585	Egyetteville N C
Colline May Ir	Ir C F	Cary	Cary N C
Collins Preston B	Fr C F	Cary315 7th, Box 3381	Morrisville N C
Collins, Percy E.	Fr. Gen. Engr.	122 8th	Newport News, Va
Colvin, David	Grad. Ch. E.	2304 Clark Avenue	Chapel Hill, N. C.
Connell, G. C., Ir.	Fr. Ag	10 8th	Hendersonville, N. C.
Conrad, Alton B	So. Tex. Mgt	103 Chamberlain St	Charlotte, N. Ć.
Conrad, E. B.	Jr. Ind. E	205 A, Box 5282	Charlotte, N. C.
Conrad, G. W	.Fr. Ag. Ed	221 8th	Lexington, N. C.
Constant, Leonard A	So. M. E	23 Shepherd Street	Grafton, Mass.
Cook, Bill L	So. For	315 South, Box 3579 103 Chamberlain St	Kinston, N. C.
Cook, Charles	Jr. Tex. Mfg	103 Chamberlain St	Philadelphia, Pa.
Cook, J Frank	.Fr. Arch. E	.207 8th	Clemmons, N. C.
Cook, J. W., Jr	Fr. M. E	Withdrew Sept. 18 204 Wat., Box 3022	Belews Creek, N. C.
Cooke, Henry L	Sr. F. C. & Pl. B	204 Wat., Box 3022	Littleton, N. C.
Coon, Ed. Howard, Jr	Sr. C. E	3517	Watertown, Conn.
Cooper, A. S., Jr.	Fr. M. E	1209 Cowper Drive	Raleigh, N. C.
Cooper, Keith F	Fr. M. E	302 7th, Box 3368 129 1911, Box 3729	Pleasant Garden, N. C.
Cooper, Wallage C	C. F F	129 1911, DOX 3/29	Climan N C
Coor F Ovid Jr	Er A.	50 1911, Box 3821	Solma N C
Corbin Wm Lloyd	Fr C F	12 8th	Otto N C
Cornacchione Antonio	So C F	227 South, Box 3559	Statesville N C
Cornelius, Willis V.	So. Ag. Ed.	223 Forest Road	Conover, N. C.
Cornwell, Roy S.	So. M. E.	335 C	Nashville, N. C.
Correll, Spence M.	Sr. An. Prod	Dairy House, Box 5127	Woodleaf, N. C.
Correll, W. C.	Jr. Arch. E	136 C	Albemarle, N. C.
Couch, L. H., Ir.	Fr. M. E.	114 Horne St.	Monroe, N. C.
Coughenour, Dick	Fr. E. E.	.212 8th	Salisbury, N. C.
Council, John M., Jr	Fr. E. E	121 8th	Wananish, N. C.
Covington, C. Dewey, Jr	Fr. Ag.	Dairy Barn	Mebane, N. C.
Covington, Frank E., Jr	So. Ind. E	239 1911, Box 3779	Wadesboro, N. C.
Covington, M. Cade	Fr. Ag. Ed	3135 Stanhope Ave	Jonesboro, N. C.
Covington, Wm. A	So. Ag. Ec	302 South, Box 3566	Florence, S. C.
Coward Wilhorn R	Jo. 1 ex. Mag		Dooky Mount N C
Cov Don F	Jr. Tex. Mgt	Route 1, Box 1236	Palaigh N C
Cox. Grover C. Ir	So. Ch. E	2314 Hillsboro St	Greenshoro N. C.
		.314 8th	
Cox, W. Thompson	Fr. C. E.	.122 South, Box 3522	Charlotte, N. C.
Craig, Robert J.	Ir. Ind. E.	2316 Hillsboro St	Wilmington, N. C.
Craig, Thomas W.	Fr. Ag. Engr	.201 9th	Concord, N. C.
Crane, L. R	Grad. E. E	Route 1	Raleigh, N. C.
Craven, Doug A	Fr. M. E	110 7th, Box 3310	Fayetteville, N. C.
Craven, Kiffin R.	Sr. Tex. W. & D	.1 South, Box 3597	Charlotte, N. C.
Craver, Curtis R., Jr	So. Arch. E	110 6th, Box 3246	Winston-Salem, N. C.

Name	Classification	School Address	Home Address
Crayer, L. S.	Fr. Ag.	18 South, Box 3614	Lexington, N. C.
Craver, Wm. Raymond	Ir. Ag. Ed.	18 South, Box 3614	Lexington, N. C.
Crawford, Herbert R	Ir. M. E	307 4th, Box 3133	Henderson, N. C.
Crawford Monte L.	Sr Tex Mfg	122 A	
		Mail: 21 Enterprise St	Graham, N. C.
Creech, G. W., Jr	So. Tex. Mfg	104 A, Box 5024	Concord, N. C.
Cress, Duard F.	Fr. Ag	203 9th	Salisbury, N. C.
Criner, Donald M	r. Ind. Arts	Dining Hall.	Kissimmee, Fla.
Croll, Gilbert G	Sr. An. Prod	10 Enterprise St	Kidgewood, N. J.
Cromartie, H. Lekoy, Jr	Ir For	222 A, Dox 5402	Enverterille N. C.
Crombie Wm A	So For	2310 Hillsboro St.	Delair N I
Croom, Chas. E.	Fr. Ch. E.	306 7th, Box 3372	Hallsboro, N. C.
Croom, Holmes M.	Fr. Ag	A-202 Boylan Apt.	Raleigh, N. C.
Crowder, Wm. H., Ir	Fr. Tex. Mfg.	2405 Clark Ave	Salisbury, N. C.
Culberson, G. R.	Grad. Tex. Mfg	219 Oberlin Rd	Raleigh, N. C.
Culberson, Paul E	Sr. An Prod	3107 Hillsboro St	Liberty, N. C.
Culp, A. E., Jr	Fr. Tex. C. & D	107 10th	Gastonia, N. C.
Culvern, Julian B.	So. Ag. Chem	302 6th, Box 3262	Camden, S. C.
Cummings, H. H.	Fr. C. E	332 8th 1615 Fairview Rd	Poloich N. C.
Cunningham, Francis C	F- M F	10 Fieldhouse	Rich Square N C
Cuppingham Wm W. Ir	Fr Ind Arrs	2 Fieldhouse	Sanford N C
Curran, A. L.	Sr. Ag. Ed.	20 South, Box 3616	Bittinger, Md.
Currie, David E.	Fr. M. E.	14 8th	Warsaw, N. C.
Currie, David S., Ir	So. M. E	203 South, Box 3535	Raeford, N. C.
Curtis, Ernest H	Fr. M. E	225 1911, Box 3765	Greensboro, N. C.
Curtis, Eugene H	So. Gen. Ag	Cary	Cary, N. C.
Curtis, Reiley S., Jr.	Fr. C. E	Cary	Cary, N. C.
Cutler, Millard L.	Fr. E. E	116 8th	Washington, N. C.
Dail, Jack I	Fr Ao.	2220 Hillsboro St	Winterville, N. C.
Dailey, Vance C	.Fr. M. E	304 4th, Box 3131	Hatteras, N. C.
Dalrymple, R. W	Fr. Ag	105 7th, Box 3305	Jonesboro, N. C.
Dalton, Macon M.	Sr. M. E.	2513 Clark Ave	Durham, N. C.
Dalton, Robert I., Jr	Fr. Tex. Mfg	233 7th, Box 3365 8 8th	Charlotte, N. C.
Dameron, Henry W	Fr. Ag	8 8th	Bessemer City, N. C.
Daniel, Cecil F	Fr. M. E	132 7th, Box 3332	Stem, N. C.
Daniel, J. M.	fr. Ag	Withdrew Sept. 18	Stem, N. C.
Daniel, S. 1	Fr. Ag. Ed	304 8th	Enmyille N C
Darden I C Ir	rr. M. E Er Car E	6 9th	Stantoneburg N. C.
Darst W H Ir	Sr F F	530 E. Jones St	Raleigh, N. C.
Davenport Jewel H	Ir An	379 South Box 3593	Creswell N C
Davenport, Wm. H.	Sr. Ag. Ec.	117 Wat., Box 3017	Kinston, N. C.
Davidson, Ed. P.	Jr. Ind. E	117 Wat., Box 30172004 Hillsboro St	Murphy, N. C.
Davidson M F lr	lr Ind E	409 Calvin Road	Raleigh N.C.
Davis, Charles C., Jr.	Sr. Arch. E		Wilmington, N. C.
Davis, C. L.	Grad. F. C. & P. B.	Dixie I rail	Conway, S. C.
Davis, C. Wade	fr. C. E	113 8th	Arada N. C.
Davis, George W.	Sr. Pomology	2316 Hillsboro St	Red Springs N C
Davis, Harry G	Fr An Fd	128 C	Waynesville, N. C.
Davis, I. Harold	So. Ag. E	133 1911, Box 3733	Stantonsburg, N. C.
Davis, James W.	Fr. M. E.	College Apt. 3	Ashland, Ky.
Davis, Lewis B.	.So. E. E.	128 7th, Box 3328	Shelby, N. C.
Davis, L. W.	Fr. M. E	105 7th, Box 3305	Yadkinville, N. C.
Davis, Merritt W., III	Sr. Tex. Mgt.	116 Groveland	Charlotte, N. C.
Davis, Paul A	Fr. Ag. Ec.	8 Maiden Lane.	Winston-Salem, N. C.
Davis, R. Arnold	r. Ag	Withdrew Sept. 20	Greensboro, N. C.
Dawson Claud S	Sr. For. Mc	111 A233 7th, Box 3365	Cramerton X C
Dawson Hilbert H	Ir Ao Fa	1408 Hillsboro St	Dunn, N. C.
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Name	Classification	School Address	Home Address
Dawson, Richard J., Ir	So. Ag. Ed	117 Wat., Box 3017	Kinston, N. C.
Deal, G. W., Ir.	.Fr. Ch. E	231 7th, Box 3363	Kannapolis, N. C.
Deaton, J. F.	Fr. Ch. E	117 N. Person St	Raleigh, N. C.
Decker, Fred A.	Sr. Tex. Mfg	115 Woodburn Road	Charlotte, N. C.
Dees, Miss S. Frances	Sr. Land. Arch	2603 Clark Ave	Greensboto, N. C.
DeLaney, John R.	Fr. An. Prod	217 8th	Charlotte, N. C.
Dellinger, Edgar S., Jr	Fr. Gen. Engr	17 8th	Laurinburg, N. C.
Densberger, Richard S	So. Tex. Mtg	2202 Hillsboro St	Kenmore, N. Y.
Denton, Eugene C., Jr	50. Ł. Ł	121 C	Morganton, N. C.
Derby, Wm. M., Jr.	r. E. E	621 Brooks Ave1408 Hillsboro St	Raleigh, N. C.
Derbysnire, Stephen W	So M F	2513 Clark Ave	Moorestown V I
Derroy Charles	30. M. L	8 Maiden Lane	Goldshoro N. C.
Devices, Charles	Grad An Prod	201 4th, Box 3119	Green Mountain N C
Dickens T S Ir	So For	203 6th, Box 3251	Halifay N C
Dickens, W. I.	Fr. Ag.	319 South, Box 3583	Varina, N. C.
Dickerson, Andy D.	.Fr. E. E.	202 10th	Salisbury, N. C.
Dickerson, D. F.	Fr. Ind. Arts	2 Fieldhouse	Greensboro, N. C.
Dickerson, E. Norman, Ir.	Ir. Ag	8 Maiden Lane	Kinston, N. C.
Dickinson, Wm. A., Ir.	Ir. M. E	306 South, Box 3570	Favetteville, N. C.
Dickinson, Wm. T	Fr. E. E	125 Woodburn Rd	Wilson, N. C.
Dickson, Miss June A	So. Tex. W. & D	1535 Iredell Drive	Raleigh, N. C.
Dilday, L. Marion	Fr. Ag	319 7th, Box 3385	Ahoskie, N. C.
Dillon, Alonzo K.	So. M. E	215 South, Box 3547 208 10th	Elkin, N. C.
Dillon, Robert A	Fr. Tex. Mtg	208 10th	Greensboro, N. C.
Dixon, David L., Jr.	Jr. Ag	2405 Clark Ave.	Kinston, N. C.
Dixon, E. C.	So. Ch. E		Crewe, Va.
Divon, G. D.	50. Ag. Ed	111 5th, Box 3211	Flan Circ. N. C.
Divon I Edwards Is		Withdrew Sept. 21	Inglesopville Fla
Divon Lyman R	Fr 10	122 South, Box 3522	Spow Hill N C
Di Veso A A	Ir Ind Arts	202 South, Box 5262	White Plains, N. Y.
Doak C W	So Ag	120 Woodburn Rd.	Raleigh, N. C.
Doak, R. R.	.Fr. Tex. Mgr	120 Woodburn Rd	Raleigh, N. C.
Dobson, I. Adrian	Sr. Ag. Ed.	204 C. Box 5373	Statesville, N. C.
Dodge, J. David	So. C. E	116 Groveland Ave	Marion, N. C.
Donnell, Ralph H.	Ir. M. E	319 A	Greensboro, N. C.
Dorsen, Robert	So. For	102 5th, Box 3202	New York City
Dotger, Fred W., Jr.	Jr. An. Prod	10 Enterprise St	Charlotte, N. C.
Dotson, James C.	Fr. Ind. E.	5 Fieldhouse	Statesville, N. C.
Doub, Albert, Jr	Grad. Ag. Ec	3016 White Oak Road	Raleigh, N. C.
Douglas, Ross S.	So. For.:	228 C	Hendersonville, N. C.
Dover, J. Ioms, Jr.	Sr. lex. Mgt	2004 Hillsboro St	Shelby, N. C.
Drum, Joe IV.	Jr. M. E	112 A 101 4th, Box 3111	Conover, N. C.
Drummond John F	Grad. Cn. E	222 Park Ave	Proposer Park Pa
Drugg Wm R	Fr For	312 9th	Norfolk Va
Drye Jane C	Ir Tey C & D	6 Ferndell Lane, Box 5393	Landis V C
Duckworth, G. H.	Ir Ch F	125 C	New Bedford, Mass.
Dulaney, Robert B	Ir Ind E	128 A	Zelienople, Pa.
Duncan, C. Stuart	. Jr. E. E.	114 C 239 1911, Box 3779	N. Wilkesboro, N. C.
Duncan, R. Francis	So. C. E	239 1911, Box 3779	Dunn, N. C.
Duncan, Wm. C.	Fr. Gen. Engr		Forest City, N. C.
Dunlap, Brownlow W	Jr. Ch. E	11 South, Box 3607	Hillgirt, N. C.
Dunn, J. F.	So. Ch. E	238 A	Charlotte, N. C.
Dunn, W. Bruce	Sr. For.	6 Ferndell Lane, Box 5393	Kennerdell, Pa.
		204 Sixth, Box 3252	
Dysart, C. Eugene	.tr. M. E	231 C	Marion, N. C.
Fagle Wade P	Ir Ch F	308 5th, Box 3232	Saliebury V C
Fakes B A	Fr Ag Fd	308 5th, Box 3232	Oxford X C
East, Richard E	So. Ind. Arts	114 Wat., Box 3014	White Sulphur
	1110.	The state of the s	Springs, W. Va.

Name	Classificatio	on School Address	Home Address
Easterling, Cecil A.	Ir. For	2008 Hillsboro St	Wise, Va.
Eatman, Frank W., Jr	Fr. M. E	231 7th, Box 3363	Hoffman, N. C.
Eaton, Edwin C.	So. Tex. Mgt	135 A	Yadkinville, N. C.
Echerd, C. Pat.	Sr. Tex. C. & I	D. 206 Wat., Box 3024	Greensboro, N. C.
Edelen, J. Ruey	Fr. M. E	119 Ashe Ave119	Raleigh, N. C.
Edge, J. Norwood	Sr. F. C. & P. 1	B104 South, Box 3504	Fayetteville, N. C.
Edge Malcolm			· · · · · · · · · · · · · · · · · · ·
Weathersby	Fr. Ag. Ed	121 7th, Box 3321	Fayetteville, N. C.
Edgerton, Herndon R.	So. C. E	117 Forest Road	Buies Creek, N. C.
Edgerton, I. Walton	So. An. Prod	110 5th, Box 3210	Kenly, N. C.
Edmisten, Dwight M., Ir.,	Fr. Ag	310 7th, Box 3376	Sugar Grove, N. C.
Edmiston, John	Fr. Tex. Mfg	111 8th	Mooresville, N. C.
Edmonds, H. W	Jr. Tex. Mfg	127 A, Mail: 2220 Hillsboro St217 E. Lane St	
		Mail: 2220 Hillsboro St	Garden City, N. Y.
Edmundson, Ed. S., Jr	Fr. Ind. E	217 E. Lane St	Raleigh, N. C.
Edwards, Don W	lr. Tex. Mtg	103 Chamberlain St	Ft. Mill, S. C.
Edwards, Eugene S., Ir	Fr. For	328 1911. Box 3808	Hookerton, N. C.
Edwards, F. N.	Fr. Ag	104 10th	Spring Hope, N. C.
Edwards, H. V.	Ir. Tex. Mgt	103 Chamberlain St.	Fort Mill, S. C.
Edwards, Ross I	Sr. Geol. E	115 Woodburn Rd	Charlotte, N. C.
Egerton, C. Edward D., Jr	Fr. E. E	212 10th	Rockingham, N. C.
Elam, John E.	So. Ag. Ed	105 5th, Box 3205	Kings Mountain, N. C.
Elder, Theodore H	Soph. M. E	335 A	Hampton, Va.
Eller, Wade R	Fr. Ag. Ed	329 7th. Box 3395	Salisbury, N. C.
Ellington, Edwin D	Sr. Ag. Ed	2512 Clarke Ave	Graham, N. C.
Elliott, Eccles D.	Jr. F. C. & P. I	32408 Stafford Ave	Hiddenite, N. C.
Elliott, Leighton M	Fr. E. E	499 S. Boylan Ave	Raleigh, N. C.
Ellis, J. O	Fr. C. E	233 8th	Henderson, N. C.
Ellis, Wm. J., Jr.	Fr. For	231 8th	Philadelphia, Pa.
Elrod, J. Ed., Jr	Fr. M. E	Withdrew Sept. 15	Charlotte, N. C.
Ennett, A. D., Jr	So. M. E	2306 Hillsboro St	Swansboro, N. C.
Epps, L. Macon, Jr.	.Sr. M. E	213 Wat., Box 3031	Newton, N. C.
Eppes, Robertson, Jr	Fr. Ch. E	104 10th	Laurinburg, N. C.
Epstein, H. L.	.Fr. For	204 7th, Box 3336	Far Rockaway, N. Y.
Ervin, W. Jack	Sr. Ch. E	11 South, Box 3607	Mocksville, N. C.
Etheridge, Harold E.	.Fr. M. E	315 8th	Woodleaf, N. C.
Etheridge, J. N.	.Fr. For	311 6th, Box 3271	Williamsburg, Va.
Ethridge, J. W.	.Fr. Ind. E	213 9th	Goldsboro, N. C.
Evans, John M	.Fr. M. E	317 8th	Wilmington, N. C.
Evans, Wm. G	.Fr. Ind. Arts	7 Fieldhouse	St. Paul, N. C.
Everest, Dan G.	.Fr. E. E	212 8th	Salisbury, N. C.
Everett, Fate B.	So. Ag	1301 Hillsboro St.	Palmyra, N. C.
Everett, Miss Maxilla E	.Sr. Land. Arch.	1814 Park Drive	Palmyra, N. C.
E W C	D 4 D		21.0
ragan, Wm. C.	Fr. Ag. E	1 9th	Dardens, N. C.
r aires, Edwin	.Fr. M. E	304 Horne St	Charlotte, N. C.
Faison, Gaston D	Fr. Tex. Mtg	21 Enterprise	Greensboro, N. C.
Falwell, Marshall L.	.Sr. Ch. E	707 W. Morgan St	Raleigh, N. C.
rang, I. K.	Sr. Tex. C. & D	8 Ferndell Lane	Tientsin, China
raris, I homas B.	So. Arch. E	Western Blvd	Raleigh, N. C.
Farmer, J. C.	.fr. M. E	203 South, Box 3535	Rocky Mount, N. C.
Farrior, David C	.Fr. E. E	. B. 2316 Hillsboro St	Goldsboro, N. C.
Farrior, Julian W.	Grad. F. C. & P	. B2316 Hillsboro St	Burgaw, N. C.
Farthing F. H. Cl.	.50, An. Prod	132 1911, Box 3732	Willard, N. C.
Fartning, E. H. Glenn	.r. e. e	2232 Hillsboro St	Valle Crucis, N. C.
Fahlor F W	rr. Ag	222 South, Box 3554	Chapel Hill, N. C.
Foir C1	So. Ind. Arts	104 4th, Box 3114	Easton, ra.
Feldmann D. 10	Sr. W. C. & Mg	t301 C	Deleiner Md
Fends I M	.50. I ex. Mtg	103 South, Box 3503	Jalannaille Ele
Foreboo H C	.50, M, E	203 5th, Box 3215	Jacksonville, Fla.
Fereboo C C	.50. Ag	201 6th, Box 3249	Chambers N. C.
Ferguson John T.	So. Co. E.	216 C2513 Clark Avenue	Palhos Heights C 7
r erguson, jonn L., Jr	.50. Cer. E	2313 Clark Avenue	Dainoa Heights, C. Z.

Name	Classification	School Address	Home Address
Ferguson, J. T.	Jr. Ch. E	105 Vance Apts	Raleigh, N. C.
Forguson Warren S	Ir Ch F	314 Perry Street	Raleigh N C
Ferree, Hobart G., Jr	So. Tex. C. & D	.118 C	High Point, N. C.
Ferrell, J. Rudolph	Fr. Ag	208 7th, Box 3340	Durham, N. C.
Fessenden, John R	Jr. M. E	.2514 Clark Ave	Englewood, N. J.
Fick, I heodore L	Fr. Cer. E	325 /th, Box 3391	Passaic, N. J.
Fields, Alex. F	rr. W. C. & M F. M F	Y. M. C. A.	Topic N C
Filichy Joseph G	Sr Ch F	517 S. Salishury St	Raleigh N. C.
Finch, Farl A	Fr. Ag. Engr.	.517 S. Salisbury St	Bailey, N. C.
Finch, Eugene B.	So. Ch. E	314 South, Box 3578	Zebulon, N. C.
Finley, Furman T.	Fr. Tex. W. & D	806 Harp St	Raleigh, N. C.
finley, Joseph L.	Fr. Lex. Wife	.805 N. Blount St	Kaleigh, N. C.
Finn, D. B	Fr. Tex. Mfg	9 9th	Concord, N. C.
Fisher, Carl B	So. E. E	.208 Wat., Box 3026	Whittier, N. C.
Fisher, E. J.	So. M. E	.213 South, Box 3545	Bolton, N. C.
Fisher, Ellis W	Sr. 1ex. C. & D	.1922 Hillsboro St	Abadisbury, N. C.
Fisher, G. E., Jr.	50. Ag. Ed	1715 Park Drive 100 Horne St	Vanashura Ky
Flack Mays H	So. M. E Fr Tev Mfa	203 8th	Rutherfordton, N. C.
Flanigan Walter L.	So Ch F	.1922 Hillsboro St	Statesville, N. C.
Fleetwood Robert W.	Sr. An. Prod.	139 1911. Box 3739	Mars Hill, N. C.
Fleming, Miss Margaret K.	Auditor	2608 Clark Avenue	Woodleaf, N. C.
Fleming Wm F II	Fr Ao	202 6th Box 3250	Fuguay Springs, N. C.
Fleming, Wilton L.	So. Ag	202 6th, Box 3250	Fuguay Springs, N. C.
Fletcher, Lewis A	Sr. Ind. E	1413 Scales St	Raleigh, N. C.
Flowe, John S., Jr.	Sr. Tex. Mfg	12 S. Boylan Ave	Raleigh, N. C.
Flowers, J. Robbin	Fr. Arch. E	227 7th, Box 3359	Lumberton, N. C.
Floyd, Robert G	Fr. Tex. Mtg	307 South, Box 35/1	Roanoke Kapids, N. C.
Flye, R. B.	Fr. Ag	206 10th 7 Fieldhouse	Battleboro, N. C.
Flynn, Alvan W., Jr	rr. Ag	323 8th	Winston Solam N C
Flythe Ice S	So F F	714 Nash Drive	Raleigh N C.
Flythe I W	Fr Ao	5 Fieldhouse	Conway, N. C.
Folley Jean W	So Tev Mfo	328 1911 Box 3808	Aberdeen, N. C.
Ford, Joseph C., III.	So. M. E		Cadillac, Mich.
Ford, Robert V., II	So. M. E	321 C	Winston-Salem, N. C.
Fore, James 1).	Fr. C. E	128 7th. Box 3328	Whiteville, N. C.
Fornes, R. L.	Ir. Ag. Ed	208 1911	Arapahoe, N. C.
Forsythe, J. David	.Fr. Ag	Withdrew Sept. 20	Greensboro, N. C.
Foster, Albert W	Fr. C. E	31 Shepherd St	Raleigh, N. C.
Foster, G. K.	So. Dairy Mfg	.107 C	Kockville Center, N. I.
Foster, John W	.5r. 1 ex. Mig	31 Shephard St	Paleigh N C
Fountain Philip P	.rr. w. E Fr. Ch. F	211 Groveland Ave	Richlands N C
Foushee I Giles	Ir Ch F	301 4th, Box 3127	Greensboro, N. C.
Foust, T. B., Ir.	So. Ch. E	2004 Hillsboro St., Box 5565	Clarksville, Tenn.
Fowler, George R.	Auditor	301 Brooks Ave	Clinton, Tenn.
Fowler, T. Jack	So. Tex. Mfg	235 1911, Box 3775	Greensboro, N. C.
Fowles Charles V	Ir Ind E	23 South Box 3619	Tryon, N. C.
Fox, George P.	.Jr. Arch. E	207 South, Box 3539	Rocky Mount, N. C.
Fox, Harrison W	.Jr. C. E	309 Wat., Box 3045	St. Petersburg, Fla.
Frady, R. Glenn	.Fr. Ch. E	111 6th, Box 3247	Sylva, N. C.
rrancis, W. Harold	.50. Ag. Ed	-120 C	w aynesville, N. C.
Franck, Koscoe W	Sr. W. E	213 Wat., Box 3031	Wilson N. C.
		205 South, Box 3537	
Frazelle F I	Jr. Cli. E Fr. M. F	102 A	Raleigh, N. C.
Frazier T R Ir	Sr F F	309 7th, Box 3375	Warrenton, N. C.
Freeman, Miss Claire F	So. Ag. Chem.	907 Glenwood Avenue	Raleigh, N. C.
Freeman, Neill W., Jr.	.Sr. Ag. Ed	104 6th, Box 3240	Star, N. C.
Frei, Hans W.	So. Tex. Mfg	8 Ferndell Lane	New York, N. Y.
Friday, W. C	Jr. Tex. Mfg	226 A	Dallas, N. C.

Friddle, C. R.  Frink, E. Ebo  Sr. An Prod.  117 South, Box 3517.  Blacknown, C.  Frisky, John R., It.  Fr. M. E.  306 4th, Box 3132.  Elizabeth City, N. C.  Frize, C. Joseph.  Sr. E. E.  302 A.  Greensboro, N. C.  Frost, Allen L.  Sr. Ch. E.  333 1911, Box 3773.  New Bedford, Mass.  Frach, T. R.  Fr. An Prod.  Fry A. Prod.  Fry A. Brod.  Fry C. W.  Fr. Ind Arts.  Fry A. Bridlhouse.  Fry A. Blacknown, C.  Fright, T. R.  Fr. An Prod.  Fry A. Bridlhouse.  Raleigh, N. C.  Fryar, Hilbert V.  Fr. Ag.  134 8th  McLeansville, N. C.  Fulcher, G. H.  Sr. Tew. Mgt.  16 South, Box 3612.  Leaksville, N. C.  Fuller, Grope R. Jr.  Fr. Fr. Ev. Mgt.  17 Apr.  Fry A.  Fuller, Mack L.  Fr. Ind Arts.  Fr. Ind Arts.  So. Ch. E.  SMaiden Lane.  Gastonia, N. C.  Fuller, Mack L.  Fr. Ind Arts.  So. Delarnette, Va.  Puller, Was L.  Fr. Ind Arts.  So. Delarnette, Va.  Fried, Mark L.  Fr. Ind Arts.  So. M. E.  1714 Park Drive.  Henderson, N. C.  Furran, Bohert L.  So. M. E.  1714 Park Drive.  Henderson, N. C.  Furr, G. C., Ir.  Jr. Ind E.  1212 Hillsboro St.  High Point, N. C.  Brevard, N. C.  Gabriel, W. R.  So. M. E.  129 1911, Box 3729.  Newton, N. C.  Garbon, Gilbert W.  Fr. M. E.  1214 7th, Box 3346.  Bridgeport, Conn.  Gardneth, Fred E.  Jr. Ind Arts.  Jr. Fr. Gen. Engr.  Jr. Hyrth, Box 346.  Bridgeport, Conn.  Gardneth, S. Jr.  Adultor.  327 W. Morgan St.  Goldway, A. B., Jr.  Fr. Gen. Engr.  Jr. Y. Morgan St.  Gardneth, S. Jr.  Adultor.  329 8th, Box 3054  Brevard, N. C.  Clumbia, S. C.  Gardneth, S. Jr.  Adultor.  320 8th Hilbsboro St.  Raleigh, N. C.  Clumbia, S. C.  Columbia, S. C.  Clumbia, S. C.  Clumbia, S. C.  Columbia, S. C.  Gardneth, S. Jr.  Adultor.  320 8th Hilbsboro St.  Raleigh, N. C.  Clumbia, S. C.  Columbia, S. C.  Columbia, S. C.  Columbia, S. C.  Gardneth, S. Jr.  Adultor.  320 8th Hilbsboro St.  Raleigh, N. C.  Clumbia, S. C.  Gardneth, S. Jr.  Adultor.  320 8th Hilbsboro St.  Raleigh, N. C.  Clumbia, S. C.  Gardneth, W. G.  Gardneth, S. Jr.  Gar	Name	Classification	School Address	Home Address
Frink, F. Ebo	Friddle, C. R.	Grad, W. C. & M.	E. C. W. Camp	Ramseur, N. C.
Frisby, John R., Ir.  Fritz, C., Joseph  Sr. E. E.  300 A b.  Sr. E. E.  302 A Greensboro, N. C.  Frost, Allen L.  Sr. Ch. E.  323 1911, Box 3773.  New Bedford, Mass.  Frucht, T. R.  Fr. An. Prod.  2232 Hillsboro St.  New Red, N. J.  Raleigh, N. C.  Fruchter, Ophpus M.  Fr. An. Prod.  1232 Hillsboro St.  New Red, N. J.  Raleigh, N. C.  Fulcher, G. H.  Sr. Tex Mgt.  16 South, Box 3612.  Leaksville, N. C.  Fulcher, Ophpus M.  Fr. An. Prod.  10 9th  Leaksville, N. C.  Fuller, George R., Jr.  Fr. Tex Mgt.  16 South, Box 3612.  Leaksville, N. C.  Fuller, Arthur H., Jr.  So. Ch. E.  S. Maiden Lane  Gastonia, N. C.  Fuller, Mack L.  Fr. Ind, Arts  2302 Beechridge Rd.  Peller, Mack L.  Fr. Ind, Arts  2302 Beechridge Rd.  Peller, Mack L.  Fr. Ind, Arts  2302 Beechridge Rd.  Peller, George, G.  Furman, Robert L.  So. M. E.  1714 Park Drive  Henderson, N. C.  Furr, G. C., Jr.  Jr. Ind, E.  1929 Hillsboro St.  High Point, N. C.  Gabriel, W. R.  Gagnon, Gilbert W.  Fr. M. E.  214 7th, Box 3346  Bridgeport, Conn.  Galloway, A. B., Jr.  Fr. Gen, Engr.  207 9th  Gardner, W. S., Jr.  Gardner, M. S., Jr.  Gardner, M. S., Jr.  Gardner, W. S., Jr.  Gardner, M. S., Jr.  Gardner, M. S., Jr.  Gardner, W. S., Jr.  Gardner, M. S., Jr.  Gardner, M. S., Jr.  Gardner, W. S., Jr.  Gardner, M. S., Jr.  Gardner, M. S., Jr.  Gardner, W. S., Jr.  Gardner, M. S., J	Frink, F., Ebo	Sr An Prod	117 South Box 3517	Bladenboro N C
Friz, C. Joseph Sr. E. E. 302 A. Greensboro, N. C. Frost, Allen L. Sr. Ch. E. 235 1911, Box 3773 New Bedford, Mass. Frucht, T. R. Fr. An. Prod. 2232 Hillsboro St. Newark, N. J. Fry, C. W. Fr. Ind. Arts. S. Fieldhouse Raleigh, N. C. Fryar, Hilbert V. Fr. Ag. 134 8th McLeansville, N. C. Fryar, Hilbert V. Fr. Ag. 134 8th McLeansville, N. C. Fulcher, Ophus M. Fr. An. Prod. 10 9th. Leaksville, N. C. Fulcher, Ophus M. Fr. An. Prod. 10 9th. Leaksville, N. C. Fuller, Arthur H., Jr. So. Ch. E. S. Maiden Lane. Gastonia, N. C. Fuller, George R. Jr. Fr. Tex. Mfg. 217 7th. Box 3349 Raleigh, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Delarnette, Va. Leaksville, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Delarnette, Va. Leaksville, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Leaksville, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Leaksville, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Leaksville, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Leaksville, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Leaksville, N. C. Furman, Robert L. So. M. E. 1714 Park Drive Henderson, N. C. Furr, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Gabriel, W. R. So. M. E. 129 1911, Box 3729 Newton, N. C. Garbriel, W. R. So. M. E. 129 1911, Box 3749 Newton, N. C. Garbriel, W. R. So. M. E. 129 1911, Box 3346 Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th. Brevard, N. C. Garrinet, Daily P. Jr. Tex. Mfg. 318 Wat., Box 3054 Bridgeport, Conn. Garrinet, Daily P. Jr. Tex. Mfg. 318 Wat., Box 3054 Bridgeport, Conn. Garrinet, Daily P. Jr. Tex. Mfg. 318 Wat., Box 3054 Bridgeport, Conn. Garrinet, Daily R. Grader, W. S., Jr. Auditor. 327 W. Morgan St. Columbia, S. C. Garrinet, Jones Fr. Ag. 229 Sth. Hillsboro St. Newark, N. J. Gardinet, W. S., Jr. Auditor. 3205 Hillsboro St. Newark, N. J. Garrinet, Jones Fr. Ag. 229 Sth. June Street. Raleigh, N. C. Garkins, Lames D. So. Tex. Mfg. 212 A New Bern, N. C. Garkins, Lames D. So. Tex. Mfg. 212 A New Bern, N. C. Garkins, Lames D. So. Frex. Mfg. 212 A New Bern, N. C. Garkins, Lames D. So. Tex. Mfg. 212 A New Bern, N. C. Garkins, Lames D. So	Frishy, John R. Ir.	Fr M F	306 4th Box 3132	Flizabeth City N C
Frost, Allen   L	Fritz, C. Joseph	Sr F F	302 A	Greenshoro N C
Frucht, T. R.	Frost, Allen L.	Sr Ch E	233 1911 Box 3773	New Redford Mass
Fry, C. W. Fr. Ind. Arts. S. Fieldhouse. Raleigh, N. C. Fryar, Hilbert V. Fr. Ag. 134 8th. McLeansville, N. C. Fulcher, G. H. Sr. Tex. Mgt. 16 South. Box 3612. Leaksville, N. C. Fulcher, G. H. Sr. Tex. Mgt. 16 South. Box 3612. Leaksville, N. C. Fulcher, Ophus M. Fr. An. Prod. 10 9th. Leaksville, N. C. Fuller, Arthur H., Ir. So. Ch. E. S. Maiden Lane. Gastonia, N. C. Fuller, Groger R., Jr. Fr. Tex. Mfg. 217 7th. Box 3549. Raleigh, N. C. Fuller, Mack L. Fr. Ind. Arts. 2302 Beechridge Rd. Raleigh, N. C. Fuller, Wilburn A. Jr. Ag. Ed. Defarnette, Va. Luderburk, G. W. Jr. So. Tex. C. & D. S. Maiden Lane. LaCrange, Ga. Furman, Robert L. So. M. E. 1714 Park Drive. Henderson, N. C. Furr, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Gagnon, Gilbert W. Fr. M. E. 214 7th, Box 3749. Newton, N. C. Gagnon, Gilbert W. Fr. M. E. 214 7th, Box 3746. Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th. Brevard, N. C. Gardher, Fred E. Jr. Ind. Arts. 122 A. Gardher, Fred E. Jr. Ind. Arts. 122 A. Gardher, Fred E. Jr. Ind. Arts. 122 A. Gardher, W. S., Jr. Auditor. 327 Whorgan St. Columbia, S. C. Gardher, W. S., Jr. Auditor. 3205 Hillsboro St. Newark, N. J. Garren, Jones H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Garrish, Miss Margery B. So. Arch. E. 916 W. Cabarrus St. Raleigh, N. C. Garrish, Miss Margery B. So. Arch. E. 916 W. Cabarrus St. Raleigh, N. C. Garsis, Miss Margery B. So. Arch. E. 916 W. Cabarrus St. Raleigh, N. C. Gaskins, Jumes D. So. Tex. Mfg. 209 St. Raleigh, N. C. Gaskins, James D. So. Tex. Mfg. 209 St. Raleigh, N. C. Gaskins, James D. So. Tex. Mfg. 212 A. New Bern, N. C. Raleigh, N. C. Gaskins, James D. So. Tex. Mfg. 209 St. L. Verwark, N. J. Garsin, Miss Margery B. So. Arch. E. 916 W. Cabarrus St. Raleigh, N. C. Gaskins, James D. So. Tex. Mfg. 209 St. L. Lynbrook, N. C. Raleigh, N. C. Gaskins, James D. So. Tex. Mfg. 209 St. L. Lynbrook, N. C. Godhyn, N. Y. Gentle, Vinker M. Fr. E. E. 14 Sth. Challette, N. C. Godhyn, N. Y. Gentle, Church M. Fr. E. 212 A. Box 5576. Brooklyn, N. Y. Gentle,	Frucht, T. R	Fr An Prod	2232 Hillshoro St	Newark V I
Fryar, Hilbert V	Fry. C. W.	Fr Ind Arts	8 Fieldhouse	Raleigh N C
Fulcher, Ophus M. Fr. An. Prod. 10 9th. Leaksville, N. C. Fuller, George R. Jr. Fr. Tex. Mfg. 217 7th, Box 3349 Raleigh, N. C. Fuller, George R. Jr. Fr. Tex. Mfg. 217 7th, Box 3349 Raleigh, N. C. Fuller, Wilburn A. Jr. Ag. Ed. DeJarmette, Va. Funderburk, G. W., Jr. So. Tex. C. & D. 8 Maiden Lane LaGrange, Ga. Furman, Robert L. So. M. E. 1714 Park Drive Henderson, N. C. Furt, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Gabriel, W. R. So. M. E. 129 1911, Box 3729 Newton, N. C. Gabriel, W. R. So. M. E. 129 1911, Box 3734 Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th. Brevard, N. C. Gambill, Daily P. Jr. Tex. Mfg. 318 Wat., Box 3034 Independence, Va. Gardner, Fred E. Jr. Ind. Arts. 122 A. Smithfield, N. C. Gardner, W. S., Jr. Auditor. 377 W. Morgan St. Columbia, S. C. Garfinkel, Stanley Fr. Tex. Mfg. 307 8th Flushing, N. C. Garren, Jones Fr. Ag. 229 8th Cedar Mountain, N. C. Garrison, Robert H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Garsins, Miss Margery B. So. Arch. E. 916 W. Cabarrus St. Raleigh, N. C. Gaskins, James D. So. Tex. Mfg. 212 A. New Bern, N. C. Gaskins, Luguen L. Fr. E. E. 14 8th Cattle, L. William Fr. E. E. 10 South, Box 3505 Louisburg, N. C. Garkins, Luguen L. Fr. Ag. Y. M. C. A. Roberto, N. C. Garkins, Luguen L. Fr. Ag. Y. M. C. A. Roberto, N. Y. Gentle, University M. Fr. E. E. 212 A. New Bern, N. C. Gaskins, James D. So. Tex. Mfg. 209 8th Brooklyn, N. Y. Gentle, Vincent J. Fr. C. E. 2212 A. Box 5576 Brooklyn, N. Y. Gentle, Vincent J. Fr. C. E. 2212 A. Box 5576 Brooklyn, N. Y. Gentle, Vincent J. Fr. C. E. 2213 Woodburn Rad. Mortehad City,	Fryar, Hilbert V.	Fr Ag	134 8rh	McLeansville N C
Fulcher, Ophus M. Fr. An. Prod. 10 9th. Leaksville, N. C. Fuller, George R. Jr. Fr. Tex. Mfg. 217 7th, Box 3349 Raleigh, N. C. Fuller, George R. Jr. Fr. Tex. Mfg. 217 7th, Box 3349 Raleigh, N. C. Fuller, Wilburn A. Jr. Ag. Ed. DeJarmette, Va. Funderburk, G. W., Jr. So. Tex. C. & D. 8 Maiden Lane LaGrange, Ga. Furman, Robert L. So. M. E. 1714 Park Drive Henderson, N. C. Furt, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Gabriel, W. R. So. M. E. 129 1911, Box 3729 Newton, N. C. Gabriel, W. R. So. M. E. 129 1911, Box 3734 Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th. Brevard, N. C. Gambill, Daily P. Jr. Tex. Mfg. 318 Wat., Box 3034 Independence, Va. Gardner, Fred E. Jr. Ind. Arts. 122 A. Smithfield, N. C. Gardner, W. S., Jr. Auditor. 377 W. Morgan St. Columbia, S. C. Garfinkel, Stanley Fr. Tex. Mfg. 307 8th Flushing, N. C. Garren, Jones Fr. Ag. 229 8th Cedar Mountain, N. C. Garrison, Robert H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Garsins, Miss Margery B. So. Arch. E. 916 W. Cabarrus St. Raleigh, N. C. Gaskins, James D. So. Tex. Mfg. 212 A. New Bern, N. C. Gaskins, Luguen L. Fr. E. E. 14 8th Cattle, L. William Fr. E. E. 10 South, Box 3505 Louisburg, N. C. Garkins, Luguen L. Fr. Ag. Y. M. C. A. Roberto, N. C. Garkins, Luguen L. Fr. Ag. Y. M. C. A. Roberto, N. Y. Gentle, University M. Fr. E. E. 212 A. New Bern, N. C. Gaskins, James D. So. Tex. Mfg. 209 8th Brooklyn, N. Y. Gentle, Vincent J. Fr. C. E. 2212 A. Box 5576 Brooklyn, N. Y. Gentle, Vincent J. Fr. C. E. 2212 A. Box 5576 Brooklyn, N. Y. Gentle, Vincent J. Fr. C. E. 2213 Woodburn Rad. Mortehad City,	Fulcher, G. H.	Sr. Tex. Mot.	16 South, Box 3612	Leaksville N C
Fuller, Arthur H., Jr. So. Ch. E. S. Maiden Lane Gastonia, N. C. Fuller, Mack L. Fr. Ind. Arts 2302 Becchridge Rd. Raleigh, N. C. Fuller, Mak L. Fr. Ind. Arts 2302 Becchridge Rd. Raleigh, N. C. Fuller, Wilburn A. Jr. Ag. Ed. DeJarmette, Va. Ludderburk, G. W., Jr. So. Tex. C. & D. S. Maiden Lane. LaGrange, Ga. Furman, Robert L. So. M. E. 1714 Park Drive Henderson, N. C. Furr, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Gaptiel, W. R. So. M. E. 129 1911, Box 3729. Newton, N. C. Gaptiel, W. R. So. M. E. 214 7th, Box 3346. Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th. Bridgeport, Conn. Garlowel, A. B., Jr. Tr. Gen. Engr. 207 9th. Bridgeport, Conn. Gardner, Fred E. Jr. Ind. Arts. 122 A. Smithfield, N. C. Garfinkel, Stanley. Fr. Tex. Mfg. 318 Wat., Box 3054. Independence, Va. Gardner, W. S., Jr. Auditor. 327 W. Morgan St. Columbia, S. C. Garfinkel, Stanley. Fr. Tex. Mfg. 307 8th. Flushing, N. Y. Garodnick, I. O. Auditor. 3205 Hillsboro St. Newark, N. J. Garren, Jones. Fr. Ag. 229 8th. Cartino, Cartino, Robert H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Garskins, Eugene L. Jr. Ind. E. 140 A. Griffon, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Griffon, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Griffon, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Griffon, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Griffon, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Griffon, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Wew Bern, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Wew Bern, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Wew Bern, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Wew Bern, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Wew Bern, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Wew Bern, N. C. Gaskins, Legene L. Jr. Ind. E. 140 A. Wew Bern, N. C. Gaskins, Legene L. Jr. Tr. E. E. 140 A. Wew Bern, N. C. Gartins, C. W. Jr. Cr. E. 105 South, Box 3505. Louisburg, N. C. Wew Bern, N. C. Griffon,	Fulcher, Ophus M.	Fr. An. Prod.	10 9th	Leaksville, N. C.
Fuller, George R., Jr. Fr. Tex. Mfg. 217 7th, Box 3349 Raleigh, N. C. Fuller, Wilburn A. Jr. Ag. Ed. DeJarmette, Va. Funderburk, G. W., Jr. So. Tex. C. & D. 8 Maiden Lane. LaGrange, Ga. Furman, Robert L. So. M. E. 1714 Park Drive Henderson, N. C. Furr, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Gabriel, W. R. So. M. E. 129 1911, Box 3729 Newton, N. C. Gagnon, Gilbert W. Fr. M. E. 214 7th, Box 3346 Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th Brevard, N. C. Gambill, Daily P. Jr. Tex. Mfg. 318 Wat., Box 3054 Independence, Va. Samthfield, N. C. Gardner, Fred E. Jr. Ind. Arts. 122 A. Smithfield, N. C. Gardner, W. S., Jr. Auditor. 327 W. Morgan St. C. Columbia, S. C. Garfinkel, Stanley. Fr. Tex. Mfg. 307 8th Flushing, N. Y. Gardonick, I. O. Auditor. 3205 Hillsboro St. Newark, N. J. Garren, Jones. Fr. Ag. 229 8th. Cedar Mountain, N. C. Garsins, Miss Margery B. So. Arch. E. 914 Wance Street. Raleigh, N. C. Gaskins, Eugene I. Jr. Ind. E. 140 A. Grifton, N. C. Gaskins, Burse D. So. Tex. Mfg. 212 A. New Bern, N. C. Gaskins, Burse D. So. Tex. Mfg. 212 A. New Bern, N. C. Gaskins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Gaskins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Gaskins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Gaskins, Limes D. So. Tex. Mfg. 213 A. New Bern, N. C. Gaskins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Garlin, L. William Fr. E. E. 14 8th. Challenter W. Jr. Ch. E. 212 A. New Bern, N. C. Garlin, L. William Fr. E. 140 A. Roander Rapids, N. C. Garlin, L. William Fr. E. 145 8th. So. For. Service, N. Y. Gentie, Vincent, Jr. Ch. E. 212 A. New Bern, N. C. Garlin, L. William Fr. E. 145 8th. So. For. Service, N. Y. Gentie, Vincent, Jr. Cr. E. 213 A. So. Sth. Brooklyn, N. Y. Gentie, Vincent, Jr. Cr. E. 213 A. So. Sth. Brooklyn, N. Y. Gentie, Vincent, Jr. Cr. E. 213 Woodburn Road. Morehead City, N. C. Gibbon, Win. E. Sr. Forestry. 2004 Hillsboro St. Brooklyn, N. Y. Gentie, Vincent, Jr. Cr. E. 213 Woodburn Road. Morehead City, N. C. Gibbs, Mill. G. N. Fr. Tex. Mfg. 500 Hi	Fuller, Arthur H., Ir.	So. Ch. E.	8 Maiden Lane	Gastonia, N. C.
Fuller, Mack L. Fr. Ind. Arts 2302 Beechridge Rd Raleigh, N. C. Fuller, Wilburn A. Jr. Ag. Ed. DeJarnette, Va. Funderburk, G. W., Jr. So. Tex. C. S. D. 8. Maiden Lane LaGrange, Ga. Furman, Robert L. So. M. E. 1714 Park Drive Henderson, N. C. Furr, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Garison, Gilbert W. Fr. M. E. 214 7th, Box 3749. Sewton, N. C. Garon, Gilbert W. Fr. M. E. 214 7th, Box 3546. Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th. Breyard, N. C. Gambill, Daily P. Jr. Tex. Mig. 318 Wat., Box 3054. Independence, Va. Gardnet, Fred E. Jr. Ind. Arts. 122 A. Smithfield, N. C. Gardnet, W. S., Jr. Auditor. 327 W. Morgan St. Columbia, S. C. Garfinkel, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garfinkel, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garfinkel, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garsin, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garsin, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garsin, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garsin, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garsin, Stanley. Fr. Tex. Mig. 307 8th. From Columbia, S. C. Garsin, Stanley. Fr. Tex. Mig. 219 8th. C. Cedar Mountain, N. C. Garsin, Stanley. Fr. Tex. Mig. 219 8th. C. Garsin, Stanley. Granten, Jones. Fr. Ag. 219 8th. C. Garsin, Stanley. Granten, Jones. Fr. Ag. 219 8th. C. Garsin, Miss Margery B. So. Arch. E. 914 Wance Street. Raleigh, N. C. Garsin, Stanley. Granten, Jones. Fr. Ag. 212 A. Wew Bern, N. C. Garsin, Stanley. Granten, Jones. Gr	Fuller, George R., Ir.	Fr. Tex. Mfg	217 7th, Box 3349	Raleigh, N. C.
Funderburk, G. W., Jr.  So. Tex. C. & D.  S. M. E.  1714 Park Drive  Henderson, N. C.  Furr, G. C., Jr.  Jr. Ind. E.  1922 Hillsboro St.  High Point, N. C.  Gabriel, W. R.  Gabriel, W. R.  So. M. E.  1219 1911, Box 3729  Newton, N. C.  Garlonon, Gilbert W.  Fr. M. E.  2143 7th, Box 3346  Bridgeport, Conn.  Bridgeport, Conn.  Galloway, A. B., Jr.  Fr. Gen. Engr.  207 9th  Brevard, N. C.  Gambill, Daily P.  Jr. Tex. Mfg.  318 Watt. Box 3054  Independence, Va.  Smithfeld, N. C.  Gardner, Fred E.  Jr. Ind. Arts.  122 A.  Smithfeld, N. C.  Gardner, W. S., Jr.  Auditor  327 W. Morgan St.  Columbia, S. C.  Columbia, S. C.  Garfinkel, Stanley  Fr. Tex. Mfg.  307 8th  Flushing, N. Y.  Garden, Jones  Fr. Ag.  229 8th  Cardinon, N. C.  Garrison, Robert H.  So. Ch. E.  914 Vance Street.  Raleigh, N. C.  Gaskins, Burgery B.  So. Arch. E.  914 Wance Street.  Raleigh, N. C.  Gaskins, Burger B.  Fr. Ind. E.  140 A.  Grifton, N. C.  Gaskins, Walter W.  Jr. Ch. E.  212 A.  New Bern, N. C.  Gaskins, Walter W.  Jr. Ch. E.  212 A.  New Bern, N. C.  Gaskins, Walter W.  Jr. Ch. E.  212 A.  New Bern, N. C.  Gaskins, Walter W.  Jr. Ch. E.  212 A.  New Bern, N. C.  Gaskins, Walter W.  Jr. Ch. E.  212 A.  New Bern, N. C.  Garlin, L. William  Fr. E.  14 8th  Cantonic N. C.  Charlotte, N. C.  Garlotte, N. C.  Garlotte, N. C.  Roawkowski, Paul  So. For.  So. Fr. Mg.  299 8th  Lynbrook, N. Y.  Gentry, Gerry M.  Fr. Tex. Mfg.  299 8th  Lynbrook, N. Y.  Gentry, Gerry M.  Fr. Tex. Mfg.  390 9th  Brooklyn, N. Y.  Gentry, Gerry M.  Fr. Tex. Mfg.  390 9th  Brooklyn, N. Y.  Gentry, Gerry M.  Fr. Ag.  N. C.  Gesting, P. M.  Grander, Fr. Ag.  So. Orange, N. J.  Golbbons, Wm. E.  So. Tex. Mfg.  390 Park Ave.  Engley On Amorgan, Morehaed City, N. C.  Gibbs, Lond  Gibbs, Lond  Grifton, N. C.  Gibbs, Lond  Grander, Fr. Ag.  So. Orange, N. J.  Golbbons, Wm. E.  So. For. S. P. B.  191 Wanderson St.  Brooklyn, N. Y.  Gibbs, Sullivan G.  Fr. Ag.  301 Park Ave.  Engledhard, N. C.  Gibbs, Lond  Gibert, James W.  Gibert, James W.  Grad, Fr. S. B.  Gibert, James	Fuller, Mack L.	Fr. Ind. Arts	2302 Beechridge Rd	Raleigh, N. C.
Furman, Robert L.  So. M. E.  1714 Park Drive Henderson, N. C.  Furr, G. C., Jr.  Jr. Ind, E.  1922 Hillsboro St.  High Point, N. C.  Gabriel, W. R.  So. M. E.  129 1911, Box 3729  Newton, N. C.  Gaptiel, W. R.  So. M. E.  121 7th, Box 3346  Bridgeport, Conn.  Galloway, A. B., Jr.  Fr. Gen. Engr.  207 9th Brevard, N. C.  Gambill, Daily P.  Ir. Tex. Mig.  318 Wat., Box 3054  Independence, Va.  Smithfield, N. C.  Gardner, Fred E.  Jr. Ind. Arts.  122 A.  Smithfield, N. C.  Gardner, W. S., Jr.  Auditor  327 W. Morgan St.  Columbia, S. C.  Flushing, N. Y.  Gardnick, I. O.  Auditor  3205 Hillsboro St.  Newark, N. J.  Garren, Jones  Fr. Ag.  229 8th  Cedar Mountain, N. C.  Garsins, Miss Margery B.  So. Arch. E.  914 Vance Street  Raleigh, N. C.  Gaskins, James D.  So. Tex. Mig.  212 A.  New Bern, N. C.  Gaskins, Swalter W.  Jr. Ch. E.  212 A.  New Bern, N. C.  Garsin, I. William  Fr. E. E.  14 8th  Cattie, C. M., Jr.  Sr. Cer. E.  103 South, Box 3505  Louisburg, N. C.  Gawkowski, Paul  So. For.  S. Ferndell Lane  New York, N. Y.  Gardio, N. C.  Gawkowski, Paul  So. For.  S. Ferndell Lane  New York, N. Y.  Gesher, Ted E.  Jr. M. E.  140 A.  Roanoke Rapids, N. C.  Gartis, C. M., Jr.  Sr. Cer. E.  103 South, Box 3505  Louisburg, N. C.  Gawkowski, Paul  So. For.  S. Ferndell Lane  New York, N. Y.  Gentle, Nichent I.  Jr. C.  Gartis, C. M., Jr.  Sr. Cer. E.  103 South, Box 3505  Louisburg, N. C.  Gawkowski, Paul  So. For.  S. Ferndell Lane  New York, N. Y.  Gentle, Vincent I.  Jr. C.  Gerber, Ted E.  Sr. For.  140 SHillsboro St.  Brooklyn, N. Y.  Gerter, Ted E.  Sr. For.  140 SHillsboro St.  Brooklyn, N. Y.  Gerter, Ted E.  Sr. For.  140 SHillsboro St.  So. Orange, N. J.  Gibbs, L. Gregg  So. Cer. E.  115 Woodburn Road  Morehead City, N. C.  Gibbs, John G.  Sr. Ch. E.  211 A.  So. For.  S. Forestry  2004 Hillsboro St.  Brooklyn, N. Y.  Gerther, Ted E.  Sr. For.  140 SHillsboro St.  Brooklyn, N. Y.  Gerther, Jane P.  So. Cer. E.  151 Woodburn Road  Morehead City, N. C.  Gibbs, Sam W.  Jr. Foul. Sci.  Rodman, S. C.  Gibbs,	Fuller, Wilburn A.	Ir Ao Ed	-	Delarnette Va
Furrnan, Robert L. So. M. E. 1714 Park Drive Henderson, N. C. Furr, G. C., Jr. Jr. Ind. E. 1922 Hillsboro St. High Point, N. C. Gabriel, W. R. So. M. E. 129 1911, Box 3729 Newton, N. C. Gagnon, Gilbert W. Fr. M. E. 214 7th, Box 3346. Bridgeport, Conn. Galloway, A. B., Jr. Fr. Gen. Engr. 207 9th Brevard, N. C. Gambill, Daily P. Jr. Tex. Mfg. 318 Wat., Box 3054 Independence, Va. Gardner, Fred E. Jr. Ind. Arts. 122 A. Smithfield, N. C. Gardner, W. S., Jr. Auditor. 327 W. Morgan St. Columbia, S. C. Gardner, W. S., Jr. Auditor. 327 W. Morgan St. Columbia, S. C. Gardner, W. S., Jr. Auditor. 3205 Hillsboro St. Newark, N. J. Gardonick, I. O. Auditor. 3205 Hillsboro St. Newark, N. J. Garren, Jones. Fr. Ag. 229 8th. Plushing, N. Y. Newark, N. J. Garrison, Robert H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Gartisson, Robert H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Gaskins, Eugene L. Jr. Ind. E. 140 A. Grifton, N. C. Gaskins, James D. So. Tex. Mfg. 212 A. New Bern, N. C. Gaskins, James D. So. Tex. Mfg. 212 A. New Bern, N. C. Gaskins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Gatlin, L. William. Fr. E. E. 14 8th. Charlotte, N. C. Gatkins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Gattis, C. M., Jr. Sr. Cer. E. 103 South, Box 3505 Louisburg, N. C. Gay, Joe L. Fr. Ag. Y. M. C. A. Roanoke Rapids, N. C. Geil, John W., Jr. Fr. Tex. Mfg. 209 8th. Lynbrook, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Gentile, Vincent I. Jr. C. E. 213 Woo	hunderburk, G. W., Ir.	So Tex C & D	8 Maiden Lane	LaGrange Ga
Furr. G. C., Jr.   Jr. Ind. E.   1922 Hillsboro St.   High Point, N. C.	Furman, Robert L.	.So. M. E	1714 Park Drive	Henderson, N. C.
Gabriel, W. R.   So. M. E.   129 1911, Box 3729   Newton, N. C.   Gagnon, Gilbert W.   Fr. M. E.   214 7th, Box 3346   Bridgeport, Conn.   Galloway, A. B., Jr.   Fr. Gen. Engr.   207 9th   Brevard, N. C.   Gardnell, Daily P.   Jr. Tex. Mfg.   518 Wat., Box 3054   Independence, Va.   Gardner, Fred E.   Jr. Ind. Arts   122 A.   Smithfield, N. C.   Gardner, W. S., Jr.   Auditor   327 W. Morgan St.   Columbia, S. C.   Garfinkel, Stanley   Fr. Tex. Mfg.   307 8th   Flushing, N. Y.   Garden, L. O.   Auditor   3205 Hillsboro St.   Newark, N. J.   Garren, Jones   Fr. Ag.   229 8th.   Cedar Mountain, N. C.   Garrison, Robert H.   So. Ch. E.   914 Vance Street.   Raleigh, N. C.   Gaskins, Eugene L.   Jr. Ind. E.   140 A.   Grifton, N. C.   Gaskins, James D.   So. Tex. Mfg.   212 A.   New Bern, N. C.   Gaskins, James D.   So. Tex. Mfg.   212 A.   New Bern, N. C.   Gaskins, Walter W.   Jr. Ch. E.   212 A.   New Bern, N. C.   Gattin, L. William   Fr. E. E.   14 8th.   Charlotte, N. C.   Gattin, L. William   Fr. E. E.   14 8th.   Charlotte, N. C.   Gattin, L. William   Fr. E. E.   14 8th.   Charlotte, N. C.   Gattin, L. William   Fr. T. Tex. Mfg.   209 8th.   Lynbrook, N. Y.   Geluso, Nick G. Fr. M. E.   205 9th.   Brooklyn, N. Y.   Genile, Vincent I.   Jr. C. E.   221 A.   Brooklyn, N. Y.   Gentile, Vincent I.   Jr. C. E.   221 A. Box 5576.   Brooklyn, N. Y.   Gentile, Vincent I.   Jr. C. E.   221 A. Box 5576.   Brooklyn, N. Y.   Gentile, Vincent I.   Jr. C. E.   221 A. Box 5576.   Brooklyn, N. Y.   Gentile, Vincent I.   Jr. C. E.   221 A. Box 5576.   Brooklyn, N. Y.   Gentile, Vincent I.   Jr. C. E.   221 A. Box 5576.   Brooklyn, N. Y.   Gentile, Vincent I.   Jr. C. E.   221 A. Box 5576.   Brooklyn, N. Y.   Gentry, Gerry M.   Fr. M. E.   335 C.   Brooklyn, N. Y.   Gentile, Vincent I.   Jr. C. E.   221 A. Box 5576.   Brooklyn, N. Y.   Gentry, Gerry M.   Fr. M. E.   335 C.   Brooklyn, N. Y.   Gentry, Gerry M.   Fr. M. E.   335 C.   Brooklyn, N. Y.   Gentry, Gerry M.   Fr. M. E.   335 C.   Brooklyn, N. Y.   Gentry, Gerry M.	Furr, G. C., Jr	Jr. Ind. E.	1922 Hillsboro St	High Point, N. C.
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Garliovay, A. B., Jr. Fr. Gen. Engr. 207 9th. Brevard, N. C. Gambill, Daily P. Jr. Tex. Mfg. 318 War., Box 3054 Independence, Va. Gardner, W. S., Jr. Auditor 327 W. Morgan St. Columbia, S. C. Garfinkel, Stanley. Fr. Tex. Mfg. 307 8th. Flushing, N. Y. Garodnick, I. O. Auditor 3205 Hillsboro St. Newark, N. J. Gardonick, I. O. Auditor 3205 Hillsboro St. Newark, N. J. Garren, Jones Fr. Ag. 229 8th. Cedar Mountain, N. C. Garrison, Robert H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Garrison, Robert H. So. Ch. E. 914 Vance Street. Raleigh, N. C. Garsins, Miss Margery B. So. Arch. E. 916 W. Cabarrus St. Raleigh, N. C. Gaskins, Eugene L. Jr. Ind. E. 140 A. Grifton, N. C. Gaskins, Eugene L. Jr. Ind. E. 140 A. New Bern, N. C. Gaskins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Gaskins, Walter W. Jr. Ch. E. 212 A. New Bern, N. C. Gatlin, L. William. Fr. E. E. 14 8th. Charlotte, N. C. Gatlin, L. William. Fr. E. E. 145 8th. Charlotte, N. C. Gawkowski, Paul. So. For. 8 Ferndell Lane. New York, N. Y. Gay, Joe L. Fr. Ag. Y. M. C. A. Roanoke Rapids, N. C. Geil, John W., Jr. Fr. Tex. Mfg. 209 8th. Lynbrook, N. Y. Geluso, Nick G. Fr. M. E. 205 9th. Brooklyn, N. Y. Geluso, Nick G. Fr. M. E. 205 9th. Brooklyn, N. Y. Gentie, Vincent I. Jr. C. E. 221 A. Box 5576. Brooklyn, N. Y. Getsinger, John G. Sr. Ch. E. 2014 A. Brooklyn, N. Y. Getsinger, John G. Sr. Ch. E. College Ct. Apt. 4. Plymouth, N. C. Gestinger, John G. Sr. Ch. E. College Ct. Apt. 4. Plymouth, N. C. Gestinger, John G. Sr. Ch. E. College Ct. Apt. 4. Plymouth, N. C. Gibbs, Milo L. So. Tex. Mfg. 1720 Hillsboro St. Booklyn, N. Y. Gibbons, Wm. E. Sr. Forestry. 2004 Hillsboro St. Booklyn, N. Y. Gibbons, Wm. E. Sr. Forestry. 2004 Hillsboro St. Booklyn, N. C. Gibbs, Milo L. So. Tex. Mfg. 1720 Hillsboro St. Booklyn, N. C. Gibbs, Milo L. So. Tex. Mfg. 109 Chamberlain St. Bath. N. C. Gibbs, Norfleet M. Jr. Fr. Ch. E. 213 Woodburn Rod. Morehead City, N. C. Gibbs, Sam W. Jr. Fr. Ch. E. 201 Oth Green Plane, N. C. Gibbs, Sullivan G. Fr. Ag. 301 Park Ave. Engelhard, N. C. Gibbs, Norfl	Gagnon, Gilbert W	Fr. M. E	214 7th, Box 3346	Bridgeport, Conn.
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Hawkins, Ernest D.	Fr. M. E	Power Plant	Murphy, N. C.
Hawks, S. Norman	So. Ag	106 Horne St.	Norlina, N. C.
Hawley, Addison, Jr	Fr. Cer. L	103 9th	Palaiah N. C.
Hay, I nos. I	Jr. 1na. E	105 Glenwood Ave2404 Hillsboro St	Raleigh N. C.
Haves W Roy Ir	Fr Ch F	130 7th, Box 3330	Norlina, N. C.
Haynes Clarence G	Fr Arch E	312 6th, Box 3272	Burlington, N. C.
Haynes Thos F	Ir M E	139 A	Burlington, N. C.
Have Bert S	Sr For	213 C	Chattanooga, Lenn.
Have Wm F	Fr Ch F	6 Fieldhouse	Plymouth, N. C.
Hayworth, M. Samuel	Grad. C. E	101 4th, Box 3111	Asheboro, N. C.
Healy, W. M., Ir.	Sr. F. F.	338 C. Box 5311	Raleigh, N. C.
Hearn, Melvin H.	Fr. An. Prod	7 South, Box 5127	Laurinburg, N. C.
Heath, Floyd, Jr	Fr. M. E	Crabtree Road	Pink Hill, N. C.
Heath, H. Gordon	So. C. E	305 Wat., Box 3041	Statesville, N. C.
Hecht, Wm. J	Fr. E. E	130 7th, Box 3330	Indiana, N. C.
Hodrick Char	rr. W. E	320 7th, Box 3386	Jenkintown, Fa.
Home F I	rr. 1ex. C. & D	203 A	Winston-Salem N C
Heidelbach Rert A Ir	Sr Land Arch	101 Wat., Box 3001	Danville. Va.
Heilig Frank A	Fr M F	Left School Sept. 9	Salisbury, N. C.
Helms Ira H	Fr Ag Ed	7 8th	Monroe, N. C.
Helsabeck, D. K.	Fr. Ag.	618 Hillsboro St	Rural Hall, N. C.
Hemmings, Iim Dan	Ir. Ao. Ed.	104 6th, Box 3240	Dobson, N. C.
Hemsley, Thos. J.	Fr. Tex. Mfg	108 Wat., Box 3008	Bellaire, Ohio
Henderson, David B	So. M. E	108 Wat., Box 3008	Norwood, N. C.
Hendrix, Robert L.	Fr. Ag.	203 9th	Salisbury, N. C.
Henning, Richard T	Jr. Tex. Mfg	124 A	Albemarle, N. C.
Henson, Marshal F	Fr. Tex. Mtg	3 Gymnasium, Box 5181	Walstonburg, N. C.
Hepler, Ernest C., Jr	So. Cer. E	1709 Hillsboro St	Greensboro, N C.
Heritage, I hos. P.	Fr. C. E	214 C	Charlette N C
Herold Reniemin C	So. Toy Mfg	305 C	New York N Y
Herrick I. W Ir	Grad Poul Sci	2804 Hillsboro St	Northfield, N. I.
Herrin Clarence A. Ir	So M F	305 5th, Box 3229	Durham, N. C.
Herring, J. W.	So Ag.	305 Kinsey Street	Warsaw, N. C.
Herring, Wm. C.	Fr. Ag. E.	306 South, Box 3570	Wilson, N. C.
Hester, Thos. S	Fr. M. E	306 South, Box 3570220 7th, Box 3352	Henderson, N. C.
Hetherington, Irvine I., Ir.	Fr. M. E	120 8th	Baltımore, Md.
Heyward, Wm. B	Fr. M. E	1922 Hillsboro St., Box 5627	Charlotte, N. C.
Hickmon, A. Dewitt	Fr. Ag	226 8th	Bladenboro, N. C.
Hicks, Albert R., III	Şo. Ch. E	308 South, Box 3572	Laison, N. C.
Hicks, A. 1	Jr. Ag. Ed	102 4th, Box 3112	Oxford, N. C.
High C C In	Ag	315 7th, Box 3381	Daleigh N. C.
Highfil W Forl	rr. ina. Arts	138 1911, Box 3738	Coate N C
Hilburn Woodie B Ir	Ir Toy Mfa	111 C	Bladenboro, N. C.
Hildebrand Bruce A	Ir Ch F	21 South, Box 3617	Statesville, N. C.
Hilditch, Wm. I	Fr. Ch. E	216 7th, Box 3348	Niagara Falls, N. Y.
Hill, Bob F.	Fr. Ch. E	126 7th. Box 3326	Murfreesboro, N. C.
Hill, D. Harvey	So. Tex. Mgt.	1922 Hillsboro St	Charlotte, N. C.
Hill, P. G., Ir	Sr. Tex. Mgt	113 A. Box 5402	Rocky Mount, N. C.
Hill, Vernon W	So. Ag. Ed	212 5th, Box 3224	Youngsville, N. C.
Hill, Willard B.	Ir. Ag. Ed	307 Wat., Box 3043	Winterville, N. C.
Hilles, Dell L.	Fr. M. E	209 7th. Box 3341	Upper Darby, Pa.
Himmler Co.	Jr. For	1610 Ambleside Drive	Deleigh N. C.
Hines C Clarent	Jr. M. E	2804 Hillsboro St	Wineton-Solem N C
Hines Fd F	Fr M F	College Court Apt. 4	Warsaw, N. C.
Hines, Robert S	So Tey Mfg	1922 Hillsboro St	Greensboro, N. C.
	I CA: 11116		

Name	Classification	School Address	Home Address
Hinshaw, Harold W	Fr. For.	220 South, Box 3552	Winston-Salem, N. C.
Hinson, C. Grover	So. Ag. Ed.	206 6th, Box 3254	Oakboro, N. C.
Hinson, Herbert G.	Ir. C. E.	747 Hillshoro St.	Raleigh, N. C.
Hinson, P. D.	Fr. M. F.	320 8rh	Lincolnton N C
Hinson, Robert B.	Ir. F. E.	210 5th. Box 3222	Monroe N C
Hinson, Wm. C., Jr.	Fr. E. E.	302 9th	Walstonburg, N. C.
Hinton, A. A	Jr. Ch. E	214 A	Greensboro, N. C.
Hinton, H. R., Jr.	So. Ag	327 1911, Box 3807	Sharpsburg, N. C.
Hobbs, Allen M	So. M. E	2407 Clark Avenue	Charlotte, N. C.
Hobbs, Isaac A.	So. Ch. E	318 South, Box 3582	Wilmington, N. C.
Hoods, James L.	50. ror	327 1911, Box 3807	Edenton, N. C.
Hodge Ira	Jr. Ag. Engr	102 South, Box 3502	Parala Darila N. C.
Hodgen Wm P	Grad Soile	207 4th, Box 3125	Claracter Rapids, IV. C.
Hodges Bruce D Ir	So Cer F	8 Maiden Lane	Cropphoro N C
Hodges, Bruce D., Jr.	So Ch F	8 Maiden Lane	Wadeshore N C
Hodges lay M lr	Fr Ac	133 S+b	Washington N C
Hodnett, Sam A.	So. Ch. E.	2224 Hillsboro St.	Durham N C.
Hoffman, Ross B.	Sr. Ch. E.	310 Wat., Box 3046	Asheville, N. C.
Hoffman, Wm. F.	So. Ch. E	223 A	Lincolnton, N. C.
Hofmann, Julian G	So. For.	223 A 2800 Fairview Road	Raleigh, N. C.
Hogue, Robert F	Fr. M. E	110 Wat., Box 3010	Atkinson, N. C.
Holadia, W. Garlon	Ir. Tev. W. & D	2306 Hillshoro St.	Roanoke Rapids, N. C.
Holbrooks, John C	Ir. C. E	2513 Clark Ave	Albemarle, N. C.
Holcombe, James H	Jr. C. E	225 A	Fayetteville, N. C.
Holden, John H., Jr.	Jr. Arch. E	207 A 211 W. Park Drive	Supply, N. C.
Holding, Lawrence F.	Fr. Gen. Engr	211 W. Park Drive	Raleigh, N. C.
Holland, Chas. M.	Fr. For.	202 Linden Ave	Raleigh, N. C.
Holland, H. Harvey	fr. Ag.	208 7th, Box 3340	Charles, N. C.
Holliday bank D. L.	Fr. 1ex. Mig.	116 /th, Box 3316	Conover, N. C.
Hollingsworth S. Lowell	F. N. E	3 9th	M. Olive N. C.
Hollis Kemp A	Fr. M. F.	Withdrew Sept. 20	Hobson Moine
Holloman borden I	Fr Aa	5 8th	Coldsboro N C
Holloman R Peyton	Fr M F	201 S+b	Washington N C
Holloway, Carey H. Ir	Fr Arch F	201 8th2126 Country Club Drive	Raleigh V C
Hollowell, E. Graham	Ir. Ch. E.	301 South, Box 3565	Flizabeth City, N. C.
Holmes, G. Thos., Ir.	Sr. Ch. E.	202 4th. Box 3120	Snow Hill, N. C.
Holshouser, J. R., Ir.	So. E. E.	202 4th, Box 3120	Greensboro, N. C.
Holshouser, Vic A.	So. Tex. Mfg.	106 5th. Box 3206	Rockwell, N. C.
Holt, Richard D.	So. M. E	130 1911, Box 3730 206 5th, Box 3218	Goldsboro, N. C.
Honbarrier, Allen N.	So. Ag. Ed	206 5th, Box 3218	Salisbury, N. C.
Hondros, Harry A.	Fr. Ag. Ec.	134 8th	Winston-Salem, N. C.
Honeycutt, Earl M.	Jr. Ch. E.	120 Forest Road	Burnsville, N. C.
Honeycutt, J. Newman	Fr. Ag	324 A	Varina, N. C.
Honeyman, Edward R., Jr	Fr. Ch. E	218 7th, Box 3550	Glen Ridge, N. J.
Hood, B. Kobin	Sr. Ch. E	8 Maiden Lane	Kinston, N. C.
Hood, John K., Jr.	Jr. Ch. E	117 Forest Road. 331 7th, Box 3397	Lillington, N. C.
Hone Lead E.	Fr. E. E	331 /th, Box 339/	Phoenix, N. 1.
Horner Collins	rr. C. E	307 A 333 1911, Box 3813	Mashantilla N. I.
Horowitz Rernard	Fr. Tov. Mfg	209 8th	Mount Vernon N V
Horowitz Wilbur	Fr. Tex. Mig.	209 C	New York N Y
Horton Julian S	So Tex Mat	170s Park Drive	Raleigh N C
Hosea, John R	Fr. Ch. F		Pikeville, N. C.
Houck, James H.	Fr. Ag.	217 8th	Winston-Salem, N. C.
Houghton, J. Edward.	Ir. Ch. E.	125 C	New Bedford, Mass.
House, Richard D., Ir.	So. Ag.	1301 Hillsboro St	Scotland Neck, N. C.
Howard, R. Olin	Fr. M. E.	106 7th, Box 3306	Gaiveston, Texas
		24 South, Box 3620	
Howe, George M.	So. For.	304 A	Elizabeth, N. J.
Howell, G. Vinson, Jr.	Fr. For.	21 Sth	Waynesville, N. C.
Howell, Lewis W.	.Fr. Land. Arch	201 10th	South Loston, Va.

Name	Classification	School Address	Home Address
Howell, O. J., Jr.	Sr. F. C. & P. B	Y. M. C. A., Box 5276	Goldsboro, N. C.
Hoyle, M. H., Jr	Sr. E. E.	108 South, Box 5252	Cooleemee, N. C.
Hoyle, Wm. F	Sr. Ag. Ed	239 C	Zebulon, N. C.
Hoyle, Wm. H	50. Ag	101 6th, Box 3237	Henderson, N. C.
Huberman, Herman B	Jr. Çh. E	205 South, Box 3537	Long Branch, N. J.
Huckabee, John D	So. Ind. E	324 C	Charlotte, N. C.
Hudson, Richard A., Jr	fr. Ag	205 10th	Waxhaw, N. C.
Huff, Alfred W	So. An. Prod	131 South, Box 3531	Mars Hill, N. C.
Huff, R. E	Jr. For	131 South, Box 3531	Mars Hill, N. C.
Huffaker, C. B	Grad. Entom	Garner	Monticello, Ay.
Huggins, Robert H	Fr. Ag	1709 Hillsboro St	Clarkton, N. C.
Huggins, Wm. S	Sr. Ag. E	338 C	Clarkton, N. C.
Hughes, Donald C.	Ir. E. E	2008 Hillsboro St	Hamlet, N. C.
Hughes, Thos. M	So. Ch. E	111 South, Box 3511	Wilson, N. C.
Humphrey, Robert P	Fr. Ag. Ed	306 8th	Beaufort, N. C.
Humphreys Harold W	Fr. Arch. E.	305 9th	Roanoke Rapids, N. C.
Hunnicutt, Fab J., Jr	Fr. For	316 8th	Durham, N. C.
Hunnicutt, Richard L	Jr. M. E	104 5th, Box 3204	Monroe, N. C.
Hunnings, Leon D., Ir.	So. Ag. E.	2316 Hillsboro St.	Newport, V. C.
Hunt, Joe L., Jr.	Fr. Ag	11 8th	Mt. Holly, N. C.
Hunt, W. T., Ir.	Sr. E. E	11 8th 125 South, Box 3525	
Hunter, Chas. A	Sr. An. Prod	125 7th, Box 3325	Charlotte, N. C.
Hunter, Frederick C.	So. E. E.	525 N. East St	Raleigh, N. C.
Hunter, James B., Ir.	Fr. Ch. E	210 9th	Charlotte, N. C.
Hunter, Joseph E., Ir.	Ir. C. E	139 A	Charlotte, N. C.
Huntley, James R.	Ir. M. E.	2514 Clark Ave.	Monroe, N. C.
Hurdle Joseph H	Fr. M. E.	202 9th	Mehane, N. C.
Hurer H Carrer Ir	So da	304 South Boy 3568	Franklin V C
Huret James R	Fr Ch F	1 9rh	Varines V C
Hurer I R	Grad F C & P B	1 9th	Franklin N C
Hurt A Rurman Ir	Ir Ch F	126 1911, Box 3726	Nathans Creek N. C.
Hussey John W	Fr For	305 7th, Box 3371	Indiananolis Ind
Hutching Tom H	So Arch F	130 South, Box 3530	Raleigh V C
Hutton Fronk D Ir	Er Arch E	131 8th	Greenshore V C
Hyman Edward D Is	F. M F	301 7-b Roy 3367	Poppers Papids V C
Hymin acr C W	E- F F	301 7th, Box 3367 7 9th	Sponger N C
Iddings Day I	E- Tou Mea	325 8th	Salishum V C
Iddings, Kay L	rr. rex. Mig	110 C D 2710	Madian N. C.
Illa Carl I I	30. E. E	110 South, Box 3510	Nadison, N. C.
IIIO, Frank L., Jr	r r. M. E	229 /th, Box 3301	N. I.
Ingle, R. Samuel	So. Geol. E.	305 Wat., Box 3041	Statesville, N. C.
ingiam, Lawson I.	50. U.H. Fa	1744 HIBSDOLO SL	I I I 9 II I O I II I C.
Ingram Sidney O Ir	Sr For	125 A Box 5201	Arden N C
Ingrisano, Pasquale P.	So. C. E.		Brooklyn, N. Y.
Irhy. P B	Sr Ind E	1913 McCarrhy St.	Raleigh, N. C.
Ireland C F	Ir Ag Ch	217 C	Franklinton N C
Isenhour Charles W Ir	Sr Cer F	335 1911, Box 3815	Salishury N C
Isenhour G M Ir	Fr Cer F	325 1911 Box 3805	New London N C
Ives W Carlton	So Ch F	311 5th Box 3235	Flizabeth City: N C
Iver W P Ir	Fr Tay C & D	302 Sth	Charlotte N. C.
Ivia R Flliort Ir	Fr Can Fran	124 7th, Box 3324	Leaksville N C
Izmirian, Edward	Sr. Ch. E	340 A	New Bedford, Mass.
Jackson, Burwell B	Jr. E. E	10 Enterprise St	Detroit, Mich.
Jackson, Cecil M.	Ir. Ag.	216 South, Box 3548	Dunn, N. C.
Jackson, R. Bruce	So. Tex. Mfg	127 C	Favetteville, N. C.
Jackson, Robert S	Fr. Tex. Mfg.	112 7th, Box 3312	Cornwall, Ontario
Jackson, Thos. F., Ir	Ir. F. F.	307 4th, Box 3133	Washington, N. C.
James, Alex L.	So. Tex. Mgt	224 C	Washington, D. C.
James, Clifford L.	Sr. F. C. & P. B.	224 C301 Wat., Box 3037	Oakboro, N. C.
James, H. Brooks	Grad. Ag. Ec	1718 Park Drive	Oakboro, N. C.
Jard, Lloyd M., Ir.	Fr. Ag.	2208 Fairview Road	Raleigh, N. C.
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- Name	Classification	School Address	Home Address
Jarvis, Ray N	So. Ch. E	123 A	Mars Hill, N. C.
Jayne Weston O.	Fr. M. E.	324 7th, Box 3390	Elmira, N. Y.
Lefferson, Jim L.	Fr. Flori.	311 9th	Fountain, N. C.
Jenkins, Frank A	Jr. E. E.	304 6th, Box 3264	Charlotte, N. C.
Jennette, Chris. R	Sr. Tex. Mfg	226 A	New Bern, N. C.
Jennings, Hubert E	Sr. C. E	401 S. McDowell St	Raleigh, N. C.
Jewell, Kelly W., Jr	Fr. E. E.	101 5th, Box 3201	Wilmington, N. C.
Jilcott, C. Poe	Fr. Ag. Ed	Fieldhouse	Roxobel, N. C.
Jobe, Allen P	Fr. Ag. Ed	124 8th	
Jobe, H. K	Fr. Cn. E	426 N. Person St	Deleich N. C.
Johns, Den K., Jr	So For	301 6th, Box 3261	Computer N V
Johnson, Albert L.	So F F	309 South, Box 3573	Clayton N C
Johnson R Lee	Ir. Ag. Ed.	303 5th, Box 3227	Scotland Neck, N. C.
Johnson Clarence B., Ir.	.So. E. E.	310 South, Box 3574	Rocky Mount, N. C.
Johnson, Ed. H.	Sr. C. E	202 A	Angier, N. C.
Johnson, Edwin R.	[r. M. E	115 Wat., Box 5203	Paw Creek, N. C.
Johnson Hubert M.	So. Tex. Mgt	_133 A	Statesville, N. C.
Johnson, I. Chris	Fr. Ag	330 A	Clayton, N. C.
Johnson John E	Ir Ac Ed	2211 Hone Street	Wallace N C
Johnson, J. G	Fr. M. E	-205 9th	Paw Creek, N. C.
Johnson, J. Willis	Jr. Ag. Ed	19 South, Box 3615	Erwin, N. C.
Johnson, LeGrand K	Jr. C. E	103 Wat., Box 3003	Winston-Salem, N. C
Johnson, Norwood A	tr. An. Prod	302 Wat., Box 3226	Smithheld, N. C.
Johnson, N. 1	Sr. F. C. & P. D	116 8th	Crossnore, N. C.
Johnson, Robert E., Jr.	rr. Gen. Engi	Route 4	Palaigh N C
Johnson, K. S	Ir Tay Mfg	8 Maiden Lane	Liberty N C
Johnson Ted C	Ir M F	103 Wat Box 3003	Paw Creek, N. C.
Johnson, Yed C. Ir	Ir Tey C. & D	-240 C	Selma, N. C.
Johnson, Wm. S.	So. M. E	.240 C	Charlotte, N. C.
Inimar I N	Er Ao	216 Sth	Winter Garden, Fla.
Jolly Arthur I. Ir.	Ir For	2004 Hillsboro St	Holland, Va.
Iones C Ben	So. Tex. Mfg	1806 Hillsboro St	
Jones, Doug R	Fr. Ch. E	320 South, Box 3584206 8th	Farmville, N. C.
Jones, Ed. J	Fr. Cer. L	206 8th	Fairmont, N. C.
Jones, Edgar L., Jr	Fr. Ch. E	209 9th	Charlotte, N. C.
Jones, Frank A., Jr	Fr. Ind. E	106 Glenwood Ave	Raleigh, N. C.
Jones, George N., Jr	Fr. M. E	207 Glascock St	E-mont Vo
Jones, George P., Jr	Grad, Geol. E	2232 Hillsboro St	Porboro N C
Jones, G. Woodrow	rr. Ag. E	Fieldhouse	Marlow Okla
Jones, Hubert W	Ir Ag	205 5th, Box 3217	Brevard, N. C.
Inner Inner F	So Ch F	326 South Roy 3590	Durham, N. C.
lones lames R. Ir.	So. Ch. E	320 South, Box 3584	Farmville, N. C.
Iones, John S., Ir.	Ir. E. E		New Bern, N. C.
Innec Inmes W	Fr M E.		Yanceyville, N. C.
Jones Mel G	So. Tex. Mfg	5 9th	Toronto, Canada
Jones M. L. Ir	Fr. Ag. Ed	106 10th	Zirconia, N. C.
Jones, Rohe C	Fr. M. E	207 Glascock St	Raleigh, N. C.
Jones, R. L., Jr	Sr. Ag. Ed	2202 Hillsboro St	Greensboro, N. C.
Jones, Thos. C., Jr	Sr. W. C. & Mgt	_8 South, Box 3604	Asheville, N. C.
Jones, W. H	Fr. M. E	707 Glenwood Ave	Exament N C
Jones, Wm. K., Jr	rr, E. E Fr Ch F	122 8th	Rochester N Y
Jordan, A. C	Ir Ag Fd	212 Wat., Box 3030	Carv. N. C.
Jordan, George D	Fr M F	College Ct. Apt. 4	Dardens. N. C.
Iordan Henry H	Fr. M. E	4 Cooper Apt	Siler City, N. C.
Iordan Wm E., Ir.	So. M. E	321 South, Box 3585	Charlotte, N. C.
Jordan W Mills Ir	Fr For.	.2230 Hillsboro St	Winton, N. C.
Ioslin I Devereux	Ir. Arch. E	20/ W. Park Drive	
Iovner Alvin I.	Fr. E. E	109 8th	Nashville, N. C.
Joyner, J. Archie	Fr. E. E	311 8th	Sharpsburg, N. C.

Name	Classification	School Address	Home Address
Joyner, Roscoe L.	Fr. Ag	311 6th, Box 3271	Spring Hope, N. C.
Julian, Howard D	Fr. Ag	334 7th, Box 3400	Salisbury, N. C.
Kaley, P. Dudley	Jr. Tex. Mfg	2407 Clark Ave	Scranton, Pa.
Kane, George W., Jr	Fr. C. E	118 A	Roxboro, N. C.
Karlman May M	So. Cn. E Sr. For	105 C	Newark, N. I.
Kattermann A W Ir	So Tev Mfg	315 C Roy 5562	Paterson, N. I
Katz, Hyman S	So. For	2304 Clark Ave	Middletown, N. Y.
Katz, J. Leonard	Grad. Ch. E	2304 Clark Ave 208 9th	Morganton, N. C.
Kaufman Samuel	Sr An Prod	101 C	Miami Beach, Fla.
Kearney, Wm. W., Ir	So. Ch. E	322 A	Rocky Mount, N. C.
Kearns C. E. Ir.	Fr. An. Prod.	304 5th, Box 3228	Asheboro, N. C.
Kearns, E. Dale	Sr. 1ex. W. & D	231 A	Pleasant Garden, N. C.
Keener, Wm. H.	So. Ch. E.	103 Chamberlain St	Winston-Salem, N. C.
Keith, J. Milton	Fr. Ag	Withdrew Sept. 15 Withdrew Sept. 14	Neuse, N. C.
Keith, Wm. B	Fr. Ag	Withdrew Sept. 14	Neuse, N. C.
Kelly A V Ir	Fr Gen Engr	2513 Clark	Raleigh N. C.
Kelly Chas L. Ir.	Fr. For	222 7th, Box 3354	Littleton, N. C.
Kelly, J. Clyde, Jr	So. Ch. E	208 5th, Box 3220	Greensboro, N. C.
Kelly, Richard B.	Sr. Tex. C. & D	308 South, Box 3572	Rockingham, N. C.
Kenper, E. Hudson	So M E	115 C.	Laurei Hill, N. C.
remper, D. Haddon.		Mail: 103 Chamberlain S 238 1911, Box 3778	tShelby, N. C.
Kendall, Chas. A	So. Arch. E	238 1911, Box 3778	Greensboro, N. C.
Kendall, R. Herndon	So. Ag. Ed	222 Park Ave	Waynesville N C
Kennedy, Iohn H	Ir. M. E	Power Plant, Box 5241 Power Plant, Box 5241	Waynesville, N. C.
Kennedy Wm H	So Cer H	3306 Hillshoro Rd	Raleigh, N. C.
Kenyon, B. W., Jr	Jr. Ag. Ec	Raleigh Apt. U-2	Raleigh, N. C.
Kester Robert M., Jr	So. M. E Fr For	305 South, Box 3569	Spruce Pine, N. C.
Ketchie, G. Moyer, Ir.	Fr. C. F.	252 8th	Charlotte, N. C.
Ketchum H R Ir	So Ch F	123 South Box 3523	Mr Holly N C
Kiger, Hugh C.	So. Ag. Ed		Ashavilla N. C.
Killian, Frank A	So Ag E.d.	6 Enterprise St.	Lincolnton, N. C.
Kimball, Claude N., Ir	So. Cer. E	308 6th, Box 3268	Enfield, N. C.
King, Chas. S	Fr. Ch. E	210 9th	Charlotte, N. C.
King I Clarence	Ir Aa	217 South, Box 3549 Brooks Ave., Box 5441	Laurinburg, N. C.
King, R. M., Ir	Grad For	2202 Hillshoro St.	Concord, N. C.
King, Thos. H.	Fr. E. E.	Withdrew Sept. 20	Hiwassee Dam, N. C.
King, Vernon A.	Fr. E. E.	131½ S. Boylan Ave	Toptan, N. C.
Kinney, Russell	50, Cn, E Fr E E	232 8th	Charlotte, N. C.
Kirkland C W Ir	Sr F F	310 8th	Bellaire, Ohio
Kirkman C H Ir	Ir Aa	121 South, Box 3521	Pleasant Garden, N. C.
Kiser, D. Webb	Sr. Ag. Ed	17 South, Box 3613	Kings Mountain, N. C.
Kitchin, James L.	Fr. For	211 Hawthorne Rd	Scotland Neck, N. C.
Kizer, G. Herman	Ir. Ind. E	202 A	Granite Falls, N. C.
Kluttz, Henry A	Fr. M. E	2623 Leesville Rd	Raleigh, N. C.
Knight, Wm R Ir	rr. Ag. La So M F	206 5th, Box 3218	Brooklyn, N. Y.
Knott, L. Hubert	Sr. E. E.	109 10th	Oxford, N. C.
Knowles, Melvin D	Fr. Ag	130 Woodburn Road	Enfield, N. C.
Know Farl I	Jr. M. E	1922 Hillsboro St 4 Maiden Lane	Kelford N. C.
ILION, Dall D		T 14141UCH DAHE	1201010, 11. 0.

Name	Classification	School Address	Home Address
Koella, Ernest, Jr.	Sr. Yarn Mfg	21 Enterprise Street	Rockford, Tenn.
A plant I have done	C = ("L L"	( C1 D 1/01	D. 1 D
Lollman, Harvey 1		201 5th, Box 3002 201 5th, Box 3213 137 1911, Box 3737 110 8th 311 5th, Box 3235 215 A	Brooklyn, N. Y.
Aoonce, f. Jo., Jr.	[I. Ag. Ed	157 1911, Box 5757	Trenton, N. C.
Nornegay, Selby D.	fr. Ag. Ed	110 8th	Mt. Olive, N. C.
Kovacevich, Faul D.	I+ M E	311 otn, Box 3235	Belmont, N. C.
Kreimer, Borah L.	Ir Ind Arts	2304 Clark Ave	Brons N V
Krider, John B., Ir.	Fr. Ch. E.	106 8th	Salisbury, N. C.
Krochmal, Arnold	Ir. Pomology	201 C	New York, N. Y.
Kugler, Frank S.	Sr. Ind. E.	201 C	Raleigh, N. C.
Auhns, Chas. D.	r. + or	1408 Hillsboro St	Kutztown, Pa.
A 11 C277 Ch1	Fr For	20-0-1	Con Hoskes N V
Aurtz, J. Wm.	Fr. M. E	2514 Clark Ave 1500 Hillsboro St	Rochester, N. Y.
Autschinski, C. D.	Sr. Ind. Arts	1500 Hillsboro St	Raleigh, N. C.
Is Relle A O	Er For	214 7th, Box 3346	Norshfold Mass
I arest S R Ir	1- 1- F3	1 Cauch Day 1100	Namiand M.C
Lackey, R. Otis	Grad Dairy	108 4th, Box 5127 1720 Hillsboro St. 2402 Hillsboro St. 6 Ferndell Lane, Box 5393	Lenoir N. C.
Lahser, Conrad B.	-Fr. M. F.	1720 Hillshoro St	Greenshoro, N. C.
Lainof, Robert I	Ir. C. E	2402 Hillsboro St.	Brooklyn, N. Y.
Lamb, Robert V.	-Sr. E. E.	6 Ferndell Lane, Box 5393_	Elizabeth City, N. C.
Lampe, Dains N.	rt arch r.	/ 14 South Box 3346	Acheboto
Lambe, T. Wm	-So. C. E.	413 Calvin Rd 101 7th, Box 3301	Raleigh, N. C.
Lambert, Hal L.	_Fr. M. E	101 7th, Box 3301	Raleigh, N. C.
Lambertson, Wingate A	Jr. Cér. E	1618 Hillsboro St	Rich Square, N. C.
Lamm, J. Elbert	_50. Ag. Ed	212 5th, Box 3224	Louisburg, N. C.
Lawrente, Willard J.	-50. C. E.	2515 Clark Ave	Yonkers, N. Y.
Language Grover C. Ir	-50. 1ex. Nigt	2513 Clark Ave. 235 A. Box 5313. 105 6th, Box 3241.	New 101k, N. 1.
Lancaster W R	F F F	103 8th	Castalia N. C.
Land. Hunter L.	St Ind F	2008 Hillshore St	Hamlet N C
Landon, Robert H.	Ir. For.	2008 Hillsboro St. 2306 Hillsboro St.	Drevel Hill, Pa.
Lane, W. Austin	Fr. Tex. C. & D		Greensboro, N. C.
Lane, Zeb B., Jr.	Sr. Tex. Mgt	18 Horne St	Wilson, N. C.
Langdon, J. Lloyd	Jr. F. C. & P. B	116 South, Box 3516	Selma, N. C.
Langley, G. E.	Fr. Gen. Engr.	213 8th	Norfolk, Va.
Lankford, M. P.	Jr. E. E	328 C, Box 5301	Thomasville, N. C.
Larkin, Richard C.	Grad. Ag. Ec	Cameron Park Apt. 15	Wheeling, Ill.
Lassiter, A. I., Ir.		301 5th, Box 3225	Clayton, N. C.
Istham H Vann It		212 /th, Box 33 <del>11</del>	Belhaven, N. C.
Laurie, Andrew	F- M F	202 10+h	Pancomville N C
Lavin, John N.	So Ch F	219 C Roy 5363	Bradley Beach N I
Lawing, Algie W., Ir.	.Fr. Ag.		Charlotte, N. C.
Lawrence, \1 \Asson	F+ 1~ Fd	103 10+b	Gates N C
Laws, John S.	Jr. M. E	113 South, Box 3513	Henderson, N. C.
Laws, Lester	Jr. Ag. Ed	_225 South, Box 3557	Kinston, N. C.
Lea, Pete S	.Jr. Ind. Arts	118 Wat., Box 3018	Elkin, N. C.
Leagans, Joseph E.	.50. Ag. Ed	309 5th, Box 3233	Cana, N. C.
Leak, Robert C.	So. I ex. Mig.	315 A	lerre Haute, Ind.
Leake Thos C III	.50. L. L.	.309 5th, Box 3233 .313 A .22091/4 Hope Street .334 1911, Box 3814	Rockingnam, N. C.
Lebowitz, Murray H	Fr For	>>± 1711, DOX 3814	Brooklyn N V
Ledbetter, T. Benson	So M F	106 South Rox 3506	Rockingham N C
Lee, C. E., Ir.	Fr. Ag. Fd	.328 A	Newton Grove, N. C.
Let. I. Lawience	50 Lev L N L	3U8 6th BOY 3 /68	Lareenshoro, N. C.
Lee, John W	Fr. M. E.	.Box 5523, St. C. S	Cary, N. C.
Lee, N. K., Jr	So. M. E	Box 5523, St. C. S. 130 1911, Box 3730.	Hampton, Va.

Name	Classification	School Address	Home Address
Lee, R. Howard	Fr. C. E	219 S. West St	Raleigh, N. C.
Lee Ralph K	Sr For	22091/2 Hope Street	Lugoff, S. C.
I W D	C 1 C 1	D 6	Dalaiah N. C.
Leeper, Bryan, H	.So. E. E	304 A 2004 Hillsboro St. 235 1911, Box 3775. 217 Wat., Box 3035. 103 7th, Box 3303. 305 4th, Box 3131. 114 A. 2407 Clark Ave.	Dallas, N. C.
Leer, Kenneth A	Jr. Tex. Mfg	2004 Hillsboro St	Cliffside Park, N. J.
Lefler, Harold B	.Jr. Arch. E	235 1911, Box 3775	Albemarle, N. C.
Lefler, Walter N.	Sr. Tex. Mfg	217 Wat., Box 3035	Albemarle, N. C.
Legate, Ray C	.Fr. M. E	103 7th, Box 3303	Black Mountain, N. C.
LeGrand, Wm. F	So. Tex. Mtg	305 4th, Box 3131	Shelby, N. C.
LeGwin, John H	.Jr. An. Prod	II+ A	Wilmington, N. C.
Lehman, Paul H., Jr.	.Jr. Ch. E	2407 Clark Ave. Not in residence	D. al Hell N. C.
Leloudis, Wm. E	.50. L. L	107 10-b	Handerson N C
Lewisy, Alton 1	Fr. M. F.	107 10th  8 Fieldhouse  214 South, Box 3546  412 N. East St.  205 7th, Box 3337	Monroe N C
Lemmond, J. Wallen	So 10	214 South Box 3546	High Point N C
Leonard Wm I Ir	So M F	412 N Fast St	Raleigh, N. C.
LeVasseur In P.	Fr C F	205 7th. Box 3337	Hartford, Conn.
Levin Robert F	Fr M F	109 7th, Box 3309	Woodmere, N. Y.
Levine, Jesse	So. For.	211 6th, Box 3259	New York, N. Y.
I . D E	I 14 F	411 1	Dalarah \ ('
Lewis, B. Franklin	Fr. E. E.	311 9th	Fountain, N. C.
Lewis, George D	Jr. M. E	2513 Clark Ave	Rocky Mount, N. C.
Lewis, Linwood D.	.Fr. E. E	134 7th, Box 3402	Macclesfield, N. C.
Lewis, Max G	So. Ag. Ed	311 9th 2513 Clark Ave. 	Fairmont, N. C.
Lewis, Robert A	So. Ch. E	201 South, Box 3533	Raleigh, N. C.
Lewis, R. B.	Fr. M. E	105 10th	West End, N. C.
Lewis, Wm. D	So. Ag. Ed	131 1911, Box 3/31	Fairmont, N. C.
Lewis, Wm. M.	.Fr. W. C. & M	103 10th 131 1911, Box 3731 326 7th, Box 3392 328 South, Box 3592 313 9th 125 1911, Box 3725 310 5th, Box 3234 1814 Park Drive	Falson, N. C.
Leysath, Elwin F.	.50. For	328 South, Box 3392	Description VI V
Light, Calvin I	.Fr. M. E	313 9tn	Haddonfield N I
Light, Earl I	.50. NI. E	310 5th Roy 3731	Lietleton N C
Line Luis H	Sr Ch F	1914 Park Drive	Manilla P I
Lineback Webster F	Fr C F	74 8th	Winston-Salem, N. C.
Lingle Arnold W	Fr Ao	24 8th	Salisbury, N. C.
Linten, I. Leonard	Fr. C. E.	313 9th	Brooklyn, N. Y.
Lippard, George H.	So. Cer. E.	205 C	Winston-Salem, N. C.
Little, Buell L.	So. Tex. Mfg	24 South, Box 3620	Mooresville, N. C.
Little, F. L., Jr.	Jr. Land. Arch	116 Groveland Ave	Ayden, N. C.
Little, Steve M.	Fr. Ag.	207 10th	Clarkton, N. C.
Little, Wm. E.	Fr. Ag. Ed	116 Groveland Ave	Grimesland, N. C.
Liverman, Ernest W	.Fr. Ind. Arts	6 Fieldhouse	Columbia, N. C.
Liverman, L. T., Jr.	Fr. Ag	132 Sth	Ahoskie, N. C.
Livermon, Robert H.	.50. C. E		Charlotte, N. C.
Lockhart, C. H.	Jr. Ag. Engr	103 6th, Box 3239	Palaimana Md
Loewensberg, Walter	.fr. Gen. Engr	323 /th, Box 3389	Vincton N C
Lorun, W. Dennis	.rrAg	-4 8thWilmont Apt. 1-C	Powboro N C
Long Al P	tie lad b	700 7	Statesville VI.
V W/	T. T 1 C	2712 Clark Assa	he Reaga VI
Love I D	So Aa	209 6th, Box 3257	Stanfield, N. C.
Low, John G. Ir	Fr Arch F	208 6th, Box 3256	Burnsville, N. C.
Lowery, C. C.	Sr. Ag. Ed.	101 C	Collettsville, N. C.
Lozier, Paul I.	Ir. For	107 C, Box 5565	Cliffside Park, N. J.
Lubin, Ben	So. Flori	101 C	Newark, N. J.
Luck, Samuel L., Jr	Sr. Arch. E	304 C	Greensboro, N. C.
Luke, Edward B.	So. E. E.	313 A 116 7th, Box 3316 223 7th, Box 3355 212 7th, Box 3344	Goldsboro, N. C.
Lupton, Floyd J.	Fr. Ag. E	116 7th, Box 3316	Pantego, N. C.
Lutz, R. Bruce	Fr. For	225 7th, Box 3355	Norwalk, Conn.
Lynch, Joseph A	Fr. Tex. Mfg	212 /th, Box 55 <del>11</del>	Erwin, N. C.

Name	Classification	School Address	Home Address
McAdams, Chas. K	So. Ag. Ed	220 Chamberlain St	Mebane, N. C.
McArrhur, C. S., Ir.	Fr. E. E.	1507 Ambleside Drive	Lumberton, N. C.
McAulay, John J	So. E. E	224 A	Mt. Gilead, N. C.
McCabe, Richard P	Sr. Cer. E	224 A 2608 Lochmoor Drive	Raleigh, N. C.
McCain, I B	Fr Ao	205 10rh	Waxhaw, N. C.
McCallum, Covert S	Grad. Ag. Ec	17 Enterprise St	Brevard, N. C.
McCaskill, L. F., Jr	Fr. E. E.	224 South, Box 3556	E. Rockingham, N. C
McClurd, John R., Jr	Sr. Arch. E	1301 Hillsboro St	Shelby, N. C.
McCollum, David L	Jr. Tex. Mfg	107 Wat., Box 3007	Wentworth, N. C.
McCollum, Robert J	Fr. Tex. Mfg	129 South, Box 3529	Winston-Salem, N. C
McCombs, M. Wm	So. C. E	3 Maiden Lane	Statesville, N. C.
McCormick, C.	r r	221 7 1 D 2272	CI CI MI
Caldwell, Jr	r. r. ror	221 7th, Box 3353	Chevy Chase, Md.
McCoy, Wm. J., Jr	r. M. E	207 8th	Charlotte, N. C.
McCracken, W. K.	rr. Ag	318 7th, Box 3384	Waynesville, N. C.
McCrary, U. F., Jr	50. M. E	9 South, Box 3605	Sanford N. C.
MaDarrett F T Ir	Fr Con From	210 7-b Pow 2242	Washington N C
McDonald Sam P	Fr A	210 7th, Box 3342 524½ N. Wilmington St. 324 C.	Paleigh N C
MacDougall James F. Ir	So Tev Mfa	324 C	Charlotte N C
McDowell M P	Ir Arch F	134 1911, Box 3734	Goldshoro N C
McDowell Robert F Ir	So An Prod	213 South, Box 3545	Charlotte N C
McDuffie, James W.	Fr Ag Ed	24 8th	Sanford, N. C.
McGarity, Gene W.	So. Tex. Mfg.	24 8th	Charlotte, N. C.
McGimsey, Ned L.	Fr. E. E.	324 8th	Nebo, N. C.
McGinn, Robert L., Ir.	Fr. For	105 9th	Charlotte, N. C.
McGinnis, James	Sr. Poul. Sci	301 Wat., Box 3037	Lincolnton, N. C.
McGoogan, Frank A.	Sr. Ag. Engr	103 Harrison Ave	Raleigh, N. C.
McIntoch, Laurence P.	So. M. E.	321 C	Winston-Salem, N. C.
McIntosh, W. O	Fr. Fo <b>r</b>	303 AAvents Ferry Road	Rockingham, N. C.
MacIntyre, Alan B	<u>F</u> r. <u>E</u> . E	Avents Ferry Road	Raleigh, N. C.
Mclver, John E., Jr	Jr. For	317 A	Clearwater, Fla.
McKay, George P.	Fr. M. E	309 A	Dunn, N. C.
McKay, Richard W	So. Soils	127 South, Box 3527	Warren, Ohio
McKay, William A., Jr	5r. Ag. Ed	210 Wat., Box 3028	St. Pauls, N. C.
McKenzie, John H., Jr.	M. E	Cary, Koute I	Dalaiah M C
McKimmon, Artnur	5r. Arch. E	118 8th	Louisburg N. C.
McKinney Dabort H	Fr. E. E	212 Oak	Arlington Va
McLaughlin Robert I	So Ter W & D	212 9th 219 South, Box 3551. 308 Wat., Box 3044.	Pietchurch Pa
McLaughlin W S	Sr Car F	308 Wat Box 3044	Gloucester Mass
McLendon Hubert F	Fr Tev Mfg	301 5th Box 3225	Burlington, N. C.
McLendon, William E.	Fr. Ch. F.	301 5th, Box 3225 404 N. Bloodworth St	Raleigh, N. C.
McLeod, Eubert W.	Ir. Tex. Mfg.	124 South, Box 3524	Carthage, N. C.
McLeod, William A., Ir.	Fr Ao Ed	127 8th	Sanford, N. C.
McLeod, W. Argyle	_Sr. Ag. Ed	134 C 308 9th	Taylorsville, N. C.
McLeod, W. Thos., Jr	Fr. Tex. Mgt	308 9th	Greensboro, N. C.
McMahan, Lemuel V	Fr. Ag.	326 7th, Box 3392	Forest City, N. C.
McManus, R. H.	Fr. Ag. Engr.	326 7th, Box 3392	Midland, N. C.
McMenamin, J. P.	Grad. Pl. Ec	1710 Park Drive	Raleigh, N. C.
McMillan, E. C.	So C E	1922 Hillshoro St	Marion, N. C.
McMillan, James P.	r. Ag	Brooks Ave., Box 5441	Laurinburg, N. C.
McNeely, K. Kowe.	50. Ag	4 Maiden Lane	Measurille N. C.
MaDhani H. 1 37	Sr. Ag. Engr	1720 Hillsboro St	Dod Springs N. C.
McPhonon Hand	sr. r. C. & P. B	131 C	Comdon N C
McRopie Rill F	50. Ag	214 A 118 South, Box 3518	Hickory N C
DICKOHE, DIII F	Jr. E. E	118 South, BOX 3318	Illekory, IV. C.
Macon, John A	So Ch F	102 Logan Court	Wake Forest, N. C.
Maddry, Howard B	Fr C F	Nazareth	Nazareth. N. C.
Madero, I. T.	Sr. Tex. Mor	Nazareth231 1911, Box 3771	Parras, Mexico
Maguire, W. Hunter	Fr. M. F.	230 E. Morgan St	Elkin, N. C.
Mahler, George C.	Sr. E. E.	230 E. Morgan St 303 Wat., Box 3039	Wilmington, N. C.
		•	

Name	Classification	School Address	Home Address
Main, Earl W	Fr. E. E.	216 7th, Box 3348	Delanco, N. I.
Maiwurm, Fred W.	Ir. Ch. E.	130 Hawthorne Rd	Asheville, N. C.
Majette, J. B., Jr.	Fr. E. E.	1715 Park Drive	
Majure, W. J.	Grad. W. C. & M	2306 Hillsboro St	Delay N. C.
Malpass, Elton C	Fr. Ag. Ed Fr. Ag. Fd	Route 1	Raleigh N. C.
Mann, Goode P.	Ir. Ch. E.	301 Park Ave.	Elkton, Va.
Mann Sam N	Sr. Dairy Mfo	223 7th. Box 3355	Asheville N C
Mann, Thurston J., Jr. Manooch, Charles S., Jr.	So. Ag	129 South, Box 3529	Lake Landing, N. C.
Manooch, Charles S., Jr	Fr. Ind. E.	1605 Scales Street	Raleigh, N. C.
Marion, Wm. B. Marks, Raymond H.	fr. for F- Ch F	307 9th	Columbia, S. C.
Marlowe, T. Johnson	Ir Ag Ed	112 5th. Box 3212	Fairview N C
Marsh, Robert S	Sr. F. C	2514 Clark Ave	Monroe, N. C.
Marsh, Wm. B.	So. Ch. E	330 C	Marshville, N. C.
Marshall, Charles M.	Fr. Tex. Mfg	231 1911, Box 3771	Charlotte, N. C.
Marshburn, Freeman J.	So. Ag. Ed	2211 Hope St	Wallace, N. C.
Martin, Archie F. Martin, C. Eugene	50. Ag. Ld F. F F	114 South, Box 3314	Jackson, N. C.
Martin, Carroll F., Jr.	Fr Tex C & D	240 A	Cramerton N C
Martin, Charles L., Ir.	Fr. Tex. Mfg	117 8th	Madison, N. C.
Martin, George D.	Fr. C. E	309 9th	Charlotte, N. C.
Martin, James D.	Fr. For	118 8th	Roanoke, Va.
Martin, James F.	Jr. Soils	2306 Hillsboro St	Wadesboro, N. C.
Martin, Melvin D. Martin, Oscar F., Jr.	So. Ch. E	2514 Clork Asso	Liberty, N. C.
Martin, Travis J.	50. FOI Fr M F	338 1911 Box 3818	Walkertown N C
Martin, Wm. D., Jr	So. Arch. E	326 Oakwood Ave	Raleigh, N. C.
Marton, Marvin L	Fr. Tex. Mgt	235 A, Box 5313	New York, N. Y.
Mask, F. E.	Grad. Ch. E	22 Enterprise St	Raleigh, N. C.
Mason, R. P.	Fr. M. E	220.0	Greensboro, N. C.
Massengill, L. E. Massey, Joe T.	Jr. C. E Grad F. F	605 N Fact St	Paleigh N. C.
Matson, Pat.	Sr. For.	2004 Hillsboro St.	Norfolk, Va.
Matthews, C. Hamilton	Fr. E. E.	135 C	Kipling, N. C.
Matthews, Clifton H.	So. M. E	110 C	Stokesdale, N. C.
Matthews, Hannibal	Fr. Ind. Engr	Route 1	Apex, N. C.
Mattocks, Averitte N.	Jr. C. E	2702 Hillsboro St	Greensboro, N. C.
Mattocks, Ted C.	Sr. r. C. & P. B Sr. Tev. Mat		Sanford N. C.
Mattocks, Wm. B., Jr	Ir. Ch. F.	325 South, Box 3589	Pinetons, N. C.
Mattox, Redfield H.	Fr. Ind. Arts	138 A	Durham, N. C.
Mattson, Axel T.	Sr. M. E.	2513 Clark Ave.	East Hampton, N. Y.
Maultsby, J. D.	Jr. Arch. E	2405 Clark Ave	Kernersville, N. C.
Mauney, Carl E.	So. Ag. Ed.	2306 Hillsboro St	Lincolnton, N. C.
Mauney, John M	Sr. 1 ex. Μ1g Ir Δ~	312 Wat., Dox 3048 227 Δ	North Bargan N. I.
May, Jack M.	Fr. M. F.	209 9th	Winston-Salem, N. C.
May, Milton C.	Fr. Tex. Mfg	204 South, Box 3536	New Bern, N. C.
May, W. L., Ir	Fr. E. E	6 9th	Rockingham, N. C.
May, Wm. N.	So. M. E.	325 C	Lengir, N. C.
Maynard, G. J.	So. Flori	Apex	Apex, N. C.
Maynard, James T	Γr. Γor	17 Enterprise St	Greenville N C
Mayo, Reuben E.	Fr. Tex. Mfg.	Fieldhouse, Box 5222	Plymouth, N. C.
Mayton, R. L.	Grad. Voc. Guid	107 9th	
Mazur, Ernest J	Fr. Tex. W. & D	221 7th, Box 3353	Pt. Washington, N. Y.
Means, H. D.	Sr. Ch. E	217 A	Concord, N. C.
Medford, M. Ned	or. Ch. E		Waynesville, N. C.
Mehaffey, Glenn W. Selton, J. Glenn Selton, Selton	So C F	201 South Roy 3533	Avondale N C
Merchant, John L.	Fr. Ch. E	105 10th	Collingswood, N. J.
Meredith, Wm. B., II	r. Gen. Engr	.806 Cowper Drive	Raleigh, N. Ć.

Name	${\it Classification}$	School Address	Home Address
Merrell, G. Dewey, Jr	Fr. E. E.	110 8th	Beaufort, N. C.
Massar Horaca R	Ir F F	8 Ferndell Lane	Bryson City, N. C.
Messersmith, Harry S., Jr.	Jr. Tex. Mfg	1301 Hillsboro St	Montclair, N. J.
Messick, Wm. R	r. lex. Mfg	_331 8th203 C	Washington D. C.
Michael Ioe F Ir	Sr Ag Chem	128 1911, Box 5155	Lexington, N. C.
Michael R Lee	Ir. Ag. Chem.	111 Wat., Box 3011	Lexington, N. C.
Michaela Abraham	Fr M F	106.4 Roy 3116	Brooklyn, N. Y
Middleton, W. James	Ir. Tex. W. & D	132 1911, Box 3732	Warsaw, N. C.
Midgette, H. Boyce	Fr. Gen. Engr	306 9th330 South, Box 3594	Buxton, N. C.
Midyette, Allen L., Jr	. So. Ch. E	330 South, Box 3594	Statesville N C
Milks Hoyd F. Ir	Sr. Ind. E Sr. Tev Mat	1301 Hillsboro St	Asheboro, N. C.
Millor M W	Grad Ind Ed	302 Horne St	Raleigh, N. C.
Millar Robert S	Fr M F	218 A	Wheaton, III.
Miller Arnold F	Ir Ch E	12.5 South, Box 5525	Orbisonia, Pa.
Miller A C	Auditor	Route 6	Raleigh, N. C.
Miller, Fred B.	Fr. C. E	333 7th, Box 3399	Cynwyd, Pa.
Miller, Frank P	Prof. C. E	Not in residence	Mooresville N C
Miller, Howard L	50. Cer. E	312 6th, Box 3272	Gastonia N C
Miller Sam A	Fr. Δα	128 8th	Laurel Springs, N. C.
Millor Wolter A	E- M E	711 9th	Concord, N. C.
Millhause Cammyr D	Ir Cor F	211 5th Roy 3223	Wilson N C
Millichamp, John W	So. Tex. Mfg	123 Brooks Ave	Toronto, Canada
Milliken, James S	So. E. E	1301 Hillsboro St	Southern Pines, N. C.
Millamor Wm U lr	Cr Ind E	7513 (Tark Ave	Greenshoro N C
Mills, John A	Fr. M. E		Raleigh, N. C.
Mills, James B	Fr. Ind. Arts	2 Gymnasium, Box 5402	Apex N C
Milleone F Steve Ir	Grad F C & P B	2 Gymnasium, Box 5402 301 4th, Box 3127	Asheboro, N. C.
Millsans Lewis M	Fr M. E.	228 8th	Asheboro, N. C.
Mininsohn, Isidore	Fr. For	228 8th	Hightstown, N. J.
Micenhaimer Fred I	Sr Tev Mfg	112 Wat Box 3012	Salisbury, N. C.
Misenheimer, Leo J	Jr. E. E	215 A	Salisbury, N. C.
Mitchell, David	So. E. E	209 C	King, N. C.
Mitchell, Jerry, Jr	r. M. E		Daleigh N C
Mitchell, Kichard H	Jr. Arcn. L	204 7th Roy 3336	Lawndale N.C.
Mitchiner James A	Sr Ag Fngr	204 7th, Box 3336	Franklinton, N. C.
Mock, Bernard A	Fr. Tex. Mfg	Gymnasium, Box 5181 218 Halifax Street	Boonville, N. C.
Monroe, Duncan A	Fr. M. E	218 Halifax Street	Raleigh, N. C.
Monroe, T. Guy, Jr	Fr. M. E		Hamlet, N. C.
Montague, Irvin B	So. M. E	8 Maiden Lane	Charlotte N C
Moore, C. E., Jr	Jr. An. Prod Jr. Tav. Mfa	N. Y. A. R. T. C., Box 5477 211 5th, Box 3223	Bynum, N. C.
Moore Paul M	Fr Tex Mat	230 E. Park Drive	Raleigh, N. C.
Moore Wm R	Ir F F	101 A	Milton, N. C.
Moran Thos F	Ir Ind E	6 Ferndell Lane	Westheld, N. J.
Mordecoi Ceorge W Ir	So M F	Wake Forest Road	Raleigh, N. C.
Morgan D T	Fr Aα Ed	113 7th Box 3313	Marshville, N. C.
Morgan H I Ir	(irad b b	ZUUX Hillshoro St.	Canton, IV. C.
Morgan, John L., Jr.	Jr. lex. Mgt	2513 Clark Ave	Shawboro N C
Morgan Reuben T	So Tex Mat	2225 White Oak Road	Raleigh, N. C.
Morgan, Wm. M., III	Fr. M. E.	.324 8th	Goldsboro, N. C.
Morris, Frank W.	Fr. M. E.	1720 Hillsboro St	Gastonia, N. C.
Morris, G. Wilbur, Ir.	Fr. Ag	320 7th, Box 3386	Asheville, N. C.
Morris, Harold D	Grad. Soils	204 Park Avenue	South Miami, Fia.
Morris, M. B.	Fr. Ag.	.103 South, Box 3503	Apex, N. C.
Morris, Sam J., Jr.	rr. C. E		Raleigh N C
Morris, Wm. F., Jr	Jr. IVI. E	2509 Vanderbilt Ave	Kaieigii, IV. C.

Name	Classification	School Address	Home Address
Morrison, Charles T	Jr. Ch. E	112 C	Hickory, N. C.
Morrison, Ed. B	Sr. Tex. Mgt	209 Wat., Box 3027	Charlotte, N. C.
Morrison, Ernest E	Sr. Ch. E	21 Enterprise St.	Meridian, Miss.
Morrison, Fred D	So. Ag	130 A	Sewickley, Pa.
Morrison, R. C.	50. Ag	4 Maiden Lane	N. Wilkesboro, N. C.
Morrison, Wm. B	Jr. Tex. Mfg	2407 Clark Ave	Concord, N. C.
Mass Donked C	Fr. C. E	120 7th, Box 3320	W ashington, N. C.
Mulhall Jacob U Ir	50. 50118	119 C	December N V
Mullen Lester A	Sr F C & P R	304 Wat., Box 3040	Lincolnton N C
Muller H S Ir	So For	301 6th, Box 3261	Aberdeen Md
Mullin, Victor F.	Fr. For.	101 10th	Aberdeen, Md.
Mullineaux, I. B., Ir.	Fr. For.	211 A	New Bern, N. C.
Murchison, Ken	Sr. An. Prod	218 C	Mocksville, N. C.
Murdoch, Wm. S.	So. Tex. Mfg.	21 Enterprise St	Salisbury, N. C.
Murphy, R. Finla	Ir. C. E	110 Wat., Box 3010	Atkinson, N. C.
Murray, D. J.	Sr. An. Prod	226 1911, Box 3766	Kenansville, N. C.
Murray, J. Darnell	Fr. Ch. E	503 N. Wilmington St	Middlesex, N. C.
Murray, I. Phillip	Fr. Ag.	Poultry Farm	Spring Hope, N. C.
Murrill, Hugh C	So. M. E	Wake Forest	Wake Forest, N. C.
Myers, Fred L., Jr	So. Ch. E	232 1911, Box 3772	Asheville, N. C.
Myers, James D	So. Ag. E	222 South, Box 3554	Chapel Hill, N. C.
Myers, Robert F	So. Ag	207 C	Laurel Springs, N. C.
Nahikian, H. M	Auditor	3207 Hillsboro St	Raleigh, N. C.
Naiman, Richard D	Ir. E. E	301 A	Asheville, N. C.
Nakoneczny, Mike W	Sr. M. E	315 Wat., Box 3051	Burgaw, N. C.
Nance, J. W	So. Cer. E	114 Horne St	Raleigh, N. C.
Nash, John F., Jr	So. Ag	202 Wat., Box 3020	St. Pauls, N. C.
Nave, B. C., Jr	Jr. Ag. Ed	3 South, Box 3599	Newland, N. C.
Neale, Wm. M., Jr	r. M. E	309 A	Greensboro, N. C.
Neednam, J. Frank	Sr. For	Box 5063	Raleigh, N. C.
Neeney, James V	50, I ex. Mig	2407 Clark Ave	Dalaigh N C
Nelley John W	Grad. Ind. Arts	310 South, Box 3574	Pagasia N. I.
Nelms John K	Jr. Cer. E	111 South, Box 3511	Oxford N C
Nelson Howard I	Fr Tey Mfg	11 Fieldhouse	Maryville Tenn
Neuer Jack I	So M F	331 1911, Box 3811	Wilmington N C
Newnam, I. Alvis	Sr. Ch. E.	22 South, Box 3618	Leaksville, N. C.
Newsom, Robert W	Fr. Ch. E	125 Woodburn Rd	Winston-Salem, N. C.
Newsome, T. Wilson	Fr. Ag	132 8th	Ahoskie, N. C.
Newton, F. Whitaker	So. Ag	Brooks Ave., Box 5441	Henderson, N. C.
Nicholas, Peter N.	So. C. E.	_219 C	Pennsgrove, N. I.
Nichols, J. H	Grad. E. E	11 Dixie Oil Ave., Box 5572	Raleigh, N. C.
Nicholson John F	So Ind F	2307 Lake Drive	
N' I D I E	D M D	Mail: 518 Professional Bld	g. Kaleigh, N. C.
Nicks, Robert E.	Fr. M. E	104 9th	Elkin, N. C.
Nigro, John	Sr. For	337 A	Brooklyn, N. Y.
Nixon, Hollowell C	50. I ex. Mfg	206 South, Box 3538	Hertford, N. C.
North I W	rr. C. E	104 9th	Snelby, N. C.
Norman Robert R	rr, Ag Fr M F	333 8th	Rath N C
Norman R FA	Fr M F	129 7th, Box 3329	Fact Rend N C
Norwood, Evan W. Ir	So Tex Mfg	231 South, Box 3563	Winston-Salem N C
Novitzkie, A. Anthony Ir	Sr. For.	1400 Hillsboro St	Masneth, N. Y.
		201 9th	
Nowell, Jack L.	So. M. E.	211 C	Charlotte, N. C.
Nowlan, A. E., Jr.	Fr. Tex. Mfg	115 8th	Guilford College, N. C.
Noyes, Wm. B.	Fr. E. E.	332 8th	Marion, N. C.
O'Brian Joseph M	Sr F C & P B	220 8th	Oxford N C
O'Briant, R. Wilbur	Fr. Ag	220 8th	Rowland, N. C.

Name	Classification	School Address	Home Address
O'Daniel, Oris L., Jr	Fr. M. E.	222 7th, Box 3354 8 Maiden Lane	Charlotte, N. C.
Odom Marshall I	F. A.	127 7th, Box 3327	
Odom William F Ir	Sr For	320 C	A-L
Oetgen Walter E Ir	Fr Ch F	221 Court De 2552	Asneville, N. C.
Oldham Anderson M	So Ao Ch	221 South, Box 3553	Savannan, Ga.
Olive David M	50, Ag. Cli	136 C	
Oliver Paul S Ir	Er Cor F	206 8th	E-image N. C.
O'Neill F Rudolph	Er Gen Engr	Wishdaw Cons 10	Dalaiah N. C.
O'Ouinn Albert O	Fr Ac Ed	Withdrew Sept. 18	Manaharan N. C.
Oransky Philip	So DI D	222 Park Ave	Now York N V
Orland Joseph F. Ir	Fr Ch F	130 8th	Vennencia N C
Ormond. John I	So Tev Mfg	302 4th, Box 3128	Vince Mountain N (
Orr. Lewis P	So C F	2220 Hillsboro St	Washington D C
Orrell, Marvin I.	Fr M F	107 7th, Box 3307	Greenshore N C
Oshorne, Bruce W	Fr Ag	2 8th	Sports N. C.
Osborne, W. Frank, Ir.	Fr M F	313 7th, Box 3379	Sparta N C
Osburn, Clarke W.	Er An Prod	209 7+b Roy 3341	New Vork N V
Overcash, Johnston R.	Fr Tex Mfg.	Y. M. C. A	Mooresville N C
Overcash, Ray L.	Sr Ch E	316 Wat Roy 3057	Kannanolis N C
Owen, Edwin B.	Grad Ind E.	131 Hawthorne Rd	Raleigh N C
Owens, Edwin B	. So M. E.	303 4th Box 3129	Black Creek N. C.
Owens, Frank A., Ir.	So Tex C & D	233 A	Charlotte N C
Owens, James H.	řr. IVI. ř	118 7th Boy 3318	Winston-Salem, N. C.
Ownley, Robert E.	Ir F. F.	110 South, Box 3510	Flizabeth City, N. C.
Pace, Ben S.	Sr. Ch. E	130 Woodburn Rd	Raleigh, N. C.
Packard, Henry D	Fr. For.	212 9th	Paoli, Pa.
Padgett, Chas. B.	So. Ag. Ed	127 1911. Box 3727	Ellenboro, N. C.
Page, Norwood R	Grad. Ag. Chem	103 4th. Box 3113	Lake View, S. C.
Page, Wm. J	Sr. F. C. & P. B	103 4th, Box 3113 1709 Hillsboro St	Autryville, N. C.
Painter, Carl C	So. C. E	1709 Hillsboro St	Prospect Hill, N. C.
Pallagut, Edward A	So. Ch. E	2004 Hillsboro St	Charlotte, N. C.
Palmer, G. C., Ir.	So Ag	128 C	Clyde N C
Panetti, J. Milton, III	Fr. Ch. E	2004 Hillsboro St	Charlotte, N. C.
Parcel, Martin W	Jr. Cer. E	101 A	Greensboro, N. C.
Park, H. V	Auditor	404 Chamberlain St.	Raleigh, N. C.
Park, John E.	Fr. M. E.	204 Sth	Charlotte, N. C.
Parker, Alfred L., Ir.	Sr. Land. Arch.	1301 Hillshoro St	Charlotte, N. C.
Parker, David C	Sr. An. Prod	217 C	Fountain, N. C.
Parker, Earl G.	Fr. Ag.	2402 Hillshoro St	Gibson, N. C.
Parker, George E., III	Fr. C. E.	119 7th Roy 3319	High Point, N. C.
Parker, J. D	Sr. Ag. Ed	. 20 South, Box 3616	Murfreesboro, N. C.
Parker, John H	Fr. Ag. Ed	132 South, Box 3532	Clinton, N. C.
Parker, J. V., Jr.	Ir. Ch. E	203 6th Box 3251	Asheville, N. C.
Parker, I. James	Fr. E. E	305 8th	Charlotte, N. C.
rarker, W. Kermit, Il	50. M. E	. 205 C	Gastonia, N. C.
Parks, Thos. F.	Sr. Tex. C. & D	2008 Hillsboro St.	Lenoir, N. C.
Parnell, Edward F	So. Ind. E	.215 C	Charlotte, N. C.
Parrish, Wilbert C	Fr. Ag. Ed	330 A	Angier, N. C.
Parsons, L. Kichard	<u>5</u> r. Ch. E	. 6 Ferndell Lane	Burlington, N. J.
Partiow, James E	Fr. Cer. E	-223 8th	Oak Hill, Ohio
Panchal Par E I	rr. C. E		Kaleigh, N. C.
Pacchal Factor A	50. Cer. L	.103 Chamberlain St	Charlotte, N. C.
Paschal Front 1	Jr. Cer. E	.132 Woodburn Rd	Siler City, N. C.
Passayant C D I.	50. Ch. E	304 Horne St	Goldston, N. C.
Pata James D	rr. IVI. E	203 7th, Box 3335	Henderson, N. C.
Pare Rudol-k	50. Ag	. 203 A	Kowland, N. C.
Pate Raiford C	rr. Ag	317 8th	Ciboon N. C.
Patterson A T	ji. Ag. La	109 oth, Box 5245	Haustonyilla N C
Patterson Flyin W	or, M. E	215 Wat., Box 3033	Hiddenite N C
Patterson O W	So Ag	105 Wat., Box 3005	Hiddenite N C
	00. /1g	South, Dox 3301	Inddenite, IV. C.

Name	Classification	School Address	Home Address
Patton, Glenn A	Jr. Ag. Ed	302 Wat., Box 3038	Franklin, N. C.
Patton George F	Fr Land Arch	23 S+h	Franklin N. C
Patton, Mack S	Fr. Ag	23 8th	Franklin, N. C.
Paul, Grayden M., II	Fr. M. E	210 10th	Beaufort, N. C.
Paulus, C. J., III	Fr. M. E	23 8th	Parlin, N. J.
Pavlovsky, Andy J	Jr. Ind. Arts	104 4th, Box 5702 332 7th, Box 3398	Struthers, Ohio
Payne, James B	Fr. Ag	332 /th, Box 3398	Madison, N. C.
Pagash Chan A	Sr. Tex. Mig	112 Wat., Box 3012	Kannapolis, N. C.
Peacock Lancing C	So Ac Ed	112 6th Por 2249	Dance N. C.
Peacock Maurice M	Ir Ag Ed	112 6th, Box 3248	Popor N. C.
Pearce D C Ir	Fr Ind Arts	Fieldhouse	Zebulen N C
Pearce Thilbert H.	Fr For	27 8th	Franklinton N C
Pearsall David W.	Sr. M. E.	315 Wat., Box 3051	Rocky Point N C
Pearsall, John S.	So. Ch. E.	230 C	Rocky Point, N. C.
Pearsall, Melzar, Ir.	Sr. Ag. Ec.	230 C210 Wat., Box 3028222 Park Ave	Wilmington, N. C.
Pearson, Howard L.	Sr. M. E	222 Park Ave.	Highlands, N. C.
Pearson, Joe M	F r. M. E	103 9th	Goldsboro, N. C.
Pearson, R. W	Sr. Poul. Sci	Poultry Plant	Highlands, N. C.
Pearson, Wm. S	So. Tex. C. & D	202 5th, Box 3214	Charlotte, N. C.
Pease, J. Norman, Jr	Fr. Arch. E	302 8th	Charlotte, N. C.
Peel, Garland O., Jr	So. E. E	211 C	Durham, N. C.
Peele, Joseph H	So. Ch. E	18 Horne St	Belhaven, N. C.
Peele, Wm. B	Fr. M. E	224 7th, Box 3356	Charlotte, N. C.
Peeler, G. B	Grad. Tex. Mtg	106 Horne St	Raleigh, N. C.
Pellington, E. J., Jr.	Fr. For		Midvale, N. J.
Pendergrass, Willard K	50. Ag	Poultry Plant	Franklin, N. C.
Pennan Miss I us M	Crod Ind Arro	Route 1	Franklin, N. C.
Penny Russell C	Grad. Ind. Arts	Koute 1	Raleigh, N. C.
Penny R Graham	Fr An Prod	Daimy Parn Pay 5217	Ai N C
Peoples I. Jackson	Fr For	240 C	Ouford N. C.
Perkins, W. L. Ir.	Fr. Ao	240 A	Goldsboro N. C.
Perks, Leo	Sr. For.	-240 A	Brooklyn, N. Y.
Perman, Bernard	Fr. Ch. E	218 8th	Warrenton, N. C.
Perry, Kenneth E.	Sr. Ch. E.	Milbrook	Milbrook N. C.
Perry, Lawrence L.	Sr. For.	102 C	Sanford N. C.
Perry, Marvin C	So. Ch. E	8 Maiden Lane	Hamlet, N. C.
Perry, Ralph W.	Ir. Ag. Ch	6 Ferndell Lane	Ouantico, Va.
Perry, Sexton D.	So. For	101 6th, Box 3237	Canton, N. C.
Perry, I. Edwin	So. Ind. Arts	508 E. Whitaker Mill Rd .23 Shephard St	Raleigh, N. C.
Peters, Charles E.	Grad. Ch. E	23 Shephard St	Grafton, Mass.
DANGE W T	Fr. Ag. Engr	-233 8tĥ	Winston-Salem, N. C.
Pharmer Wm I	rr. Cn. E	314 A	allahassee, Fia.
Pharr Iones V Ir	Sr Tev Mfa	21 Enterprise St	Canada N. C.
Phifer Horace A	Fr C F	108 8th	Hamlet N C
Phillips, C. Alvin	Fr Geol E	326 C	Cary N C
Phillips, Herman H.	Fr. Ag.	326 C 211 8th	Warsaw N C.
Phillips, K. Lee	So. Ag.	.311 A	Maysville, Kv.
Phrydas, Pete A.	So. E. E.	.301 C	Greensboro, N. C.
Picket, Wm. C.	Jr. For	Route 6, Dixie Trail	Raleigh, N. C.
Pierce, Al H.	So. Tex. Mfg.	1611 Park Drive	Montreal Canada
Pierce, H. J.	Fr. Tex. Mfg	6 Hope St	Swarthmore, Pa.
Pigue, Waldo E	So. Tex. Mfg	6 Hope St	Fayetteville, N. C.
Piland Calvin R	So Ar	202 Crossland Assa	Management of C
Pinnell, Sam W	So. Chem. E	.104 Wat., Box 3004	Warrenton, N. C.
Pitt, Edward L., III	Fr. Ag.		Pinetops, N. C.
Dittmon A Dowland I	rr. Ag		Tarboro, N. C.
Pittman, James W	30. Ch. E.	.329 1911, Box 3809	Lumberton, N. C.
Pittman Paul R Ir	Ag. Ed	.201 Wat., Box 3019	Wilmington N. C.
Plaster, I Carrol	Sr. Dairy Mfg	.301 A	Higher N C
, J. Oatzot	Duily Willg		IIICKULY, IV. C.

Name	Classification	School Address	Home Address
Platt, Nathan	Ir. Tex. Mfg.	227 South, Box 3559	Strasburg, Va.
Pleasants, Alton B	Fr. Ag.	108 7th, Box 3308	Angier, N. C.
Pleasants, Iames M	_Ir. M. E	237 1911, Box 3777	Durham, N. C.
Pleasants, Robert J	So. Ag	Cary202½ Linden Ave	Carv, N. C.
Polier, Lewis	Fr. M. E	202½ Linden Ave	Raleigh, N. C.
Pollock, L. H.	Fr. Ag.	315 South, Box 3579	Trenton, N. C.
Pollock, W. Edward	Sr. Ag. Ec	128 1911, Box 3728	Trenton, N. C.
Pomeranz, Robert	Fr. M. E	206 7th, Box 3338	Far Rockaway, N. Y.
Ponder, Zeno H	Jr. Soils	204 South, Box 3536	Marshall, N. C.
Ponos, Nick J	Fr. Ch. E	106 9th	Wilmington, N. C.
Poole, A. Eugene	<u>F</u> r. Cer. E	106 10th	Troy, N. C.
Poole, Claude T	Fr. Ag	112 Cutler St	Raleigh, N. C.
Pop, Pete E	Fr. For	206 7th, Box 3338	Brooklyn, N. Y.
Pope, J. C	Fr. Ag. Ed	11 8th	Clinton, N. C.
Porter, Robert E	So. C. E	1710 Park Drive	Charlotte, N. C.
Posten, J. Herbert	Sr. M. E	339 A	
			Highlands, N. J.
Pound, Ralston M., Jr	Fr. E. E	103 Chamberlain St	Charlotte, N. C.
Powell, Adin A.	Fr. Ag	117 7th, Box 3317	Smithfield, N. C.
Powell, Arthur W	So. Tex. C. & D	333 A, Box 5306	Charlotte, N. C.
Powell, Erwin T	Fr. E. E.	323 South, Box 3587	Smithfield, N. C.
Powell, H. W., Jr	Fr. M. E	104 8th	Winston-Salem, N. C.
Powell, James F., Jr	Jr. C. E <u>.</u>	206 Pine St	Raleigh, N. C.
Powers, B. Paul	Fr. Ag. Ed.	113 7th. Box 3313	Bennett, N. C.
Powers, J. W	Fr. For	322 7th, Box 3388	St. Pauls, N. C.
Powers, L. Reade	Jr. C. E	138 A	Raleigh, N. C.
Pratt, A. Myron	Fr. W. C. & Mgt	326 1911, Box 3806	Draper, N. C.
Pratt, Gordon H	So. Ind. E	23 A	Arlington, Mass.
Pratt, John J., Jr	Grad. Zoology	20 Maiden Lane	Cohasset, Mass.
Preddy, J. R.	Fr	526 Wilmington St	Oxford, N. C.
Pressly, Wm. C	Fr. Ag	526 Wilmington St	Raleigh, N. C.
Price, Chas. L., Jr	Jr. C. E	2202 Hillsboro St	Whiteville, N. C.
Price, E. W., Jr.	Jr. C. E <u>.</u>	309 Calvin Rd	Raleigh, N. C.
Price, F. H., Jr	Sr. Ag. Ec	218 C.	Shelby, N. C.
Price, T. B.	Jr. Tex. C. & D	324 South, Box 3588	West Jefferson, N. C.
Prim, G. C.	. So. Ag. Ec	210 6th, Box 3258	Yadkınvılle, N. C.
Proctor, B. Gray, Jr	Fr. M. <u>E</u>	316 8th	Durham, N. C.
Proffitt, James W	Jr. An. Prod	115 A	Bald Creek, N. C.
Proud, Everett R	Jr. Ch. <u>E</u>	130 A, Box 5543	Goldsboro, N. C.
Prout, C. Herbert	So. Ch. E	229 1911, Box 3769	Owings, Md.
Pruden, Booker V	Fr. M. E	102 8th	Margarettsville, N. C.
Prue, K. P	Fr. M. E	323 South, Box 3587	West Englewood, N. J.
Pruitt, Austin A	So. For	332 South, Box 3596	Carteret, N. J.
Puckett, Herbert L., Jr	Fr. Arch. E	220 C2306 Hillsboro St	Charlotte, N. C.
Pugh, Edward S. C., Jr	Sr. Arch. E	2306 Hillsboro St	Elizabeth City, N. C.
0 7 1	0 1 5	2005 D 15 1 A	M. IIII N. I
Quay, I. L	Grad. Entom	2805 Bedford Ave	Mt. Holly, N. J.
Queen, J. B	<u>. F</u> r. E. E	Withdrew Sept. 25	Pomona, N. C.
Quickel, Wm. A	Arch. E	220 South, Box 3552	Lincolnton, IV. C.
Quinn, F. D., Jr	r. lex. Mtg	305 4th, Box 3131	Shelby, N. C.
D II D I T	C W C A M	2216 11711 1	I 'NO
Rabb, Robert L	50. W. C. & M	2316 Hillsboro St	Lenoir, N. C.
Raiford, J. Phil	rr. lex. Mgt	225 8th	Concord, N. C.
Dainey, Kobert W	rr. IVI. E	201 7th, Box 3333	r ayetteville, IN. C.
Rains, D. IVI., Jr	rr. ror.	301 9th	Dringston N. C.
Domass Albert I	.г. Ag	302 5th, Box 3226	Franklin N C
Pamaser C. Alc., Jr.	rr. Ag	12 8th	Coliabum N. C.
Pamaer Curici	rr. Ind. E	100 8th	Complex W Va
Dandall English	E. E	107 6th, Box 3243	Drings P. Va.
Pandalah U-1 E	50. IVI. E	128 A	Doloich N. C
Pandalah Ista I	Cer. E	205 Wat., Box 3023	Marganton N C
Pankin Pan E	VI. E	212 Groveland Ave	Charlette N C
Nankin, Den F	rr. Cn. E	211 8th	Chariotte, N. C.

Name	Classification	School Address	Home Address
D I II D	The A.	107 5th, Box 3207 2209 Circle Drive	Dalaiah M.C
Ray M F	Grad C F		Raleigh, N. C.
Ray W Angus	Ir Ch F	1720 Hillshoro St.	Favetteville, N. C.
Reams Graham F	So Ag Ed	109 6th. Box 3245	Apex. N. C.
Reams Wayland I	Ir Ag Fd	137 1911, Box 3737	Apex. N. C.
Redding Ine W	Fr For	105 9th	Millhoro, N. C.
Redick, James A	Fr Tey Mfg.	339 1911, Box 3819	Walstonburg, N. C.
Redmon Bayter B	Sr M E	306 6th. Box 3266	Cleveland, N. C.
Reed, Joseph W.	Fr. Land. Arch.	238 1911. Box 3778	Roanoke, Va.
Reed, Roy L	So C E	3 Gymnasium	Hertford, N. C.
Reeves Ralph R Ir	Sr Arch F	228 F. Park Drive	Raleigh N. C.
Reeves	Sr Ao F	232 1911 Box 3772	Santord, N. C.
Regan, Paul R.	So. Ag. Ed.	201 5th, Box 3213	Lexington, N. C.
Rehder, G. Stanley	Fr. Ch. E.	330 8th	Wilmington, N. C.
Reid, Chas. A.	Ir. Ind Arts	331 C	Asheville, N. C.
Reid, H. A.	Fr Ao Ed	133 8th	Elizabeth City, N. C.
Remmert, LeMar F.	Grad. Ag. Chem	106 4th, Box 3116 204 C, Box 5373	Iowa Falls, Iowa
Renn, Charlie W.	Sr. An. Prod	204 C. Box 5373	Winston-Salem, N. C.
Rennie, I. N.	So. Ch. E	230 South, Box 3562	Whitakers, N. C.
Rennie, James W	Sr. M. E	13 8th	Plainfield, N. J.
Retter, Wm. H.	Ir. Ind. E	102 South, Box 5173	Easton, Pa.
Rettew, John W.	Fr. Tex. C. & D	307 5th, Box 3231	Mooresville, N. C.
Revnolds, B. Bradford, Jr.	Sr. Ch. E	207 Wat., Box 3025331 A, Box 5323	Wilmington, N. C.
Reynolds, François H. K	So. E. E	331 A, Box 5323	Ancon, C. Z.
Reynolds, Vernon H.	Fr. An. Prod	331 A	Kinston, N. C.
Rhyne, Alfred M.	So. M. E.	304 6th, Box 3264	Stanley, N. C.
Rhyne, Chas. T., Ir	Fr. Arch. E	222 Sth	Newport, Tenn.
Rhyne, John L.	So. E. E	2004 Hillsboro St	Gastonia, N. C.
Rhyne R Horace	Fr M F	109 South Box 3509	Lincolnton N. C.
Rice, Howard S	Fr. For	231 8th	Robbinsville, N. C.
Rice, Richard L.	Jr. Arch. E	130 South, Box 3530	Raleigh, N. C.
Richardson, Woodrow C	So. Ag	211 Wat., Box 3029	Sparta, N. C.
Richardson, W. Street, Jr.	_Fr. Ag. Ed	101 7th, Box 3301	New Bern, N. C.
Richey, H. L.	Fr. Ag	315 8th 4 W. Dixie Drive	Camden, S. C.
Richmond, Mrs. Martha	Grad. Ag. Ch	4 W. Dixie Drive	Raleigh, N. C.
Riddick, Rowland G	So. Ag	208 South, Box 3540	Corapeake, N. C.
Riddick Wallace W Ir	Sr Tev W & D	225 Woodhurn Rd	Demonolis, Ala.
Riddle, Chas. H., Jr	Fr. Gen. Engr	207 7th, Box 3339 402 Horne St	Sanford, N. C.
Rigney, J. A.	Grad. F. C	<del>1</del> 02 Horne St	La Mesa, N. Mex.
Riley, Brent A	Fr. C. E	206 9th	Fayetteville, N. C.
Riley, Rupert	Fr. Tex. Mfg	14 Enterprise St	Raleigh, N. C.
Rippy, Wm. G.	Fr. E. E	2008 Hillsboro St	Charlotte, N. C.
Risley, Robert S.	So. E. E		Raleigh, N. C.
Ritter, W. Herman.	§r. Tex. C. & D	105 5th, Box 3205	Greensboro, N. C.
Rivers, Wm. H.	jr. Ł. Ł	3143 Stanhope Ave	
Robbins, Wm. D.	50. Ag	12/ South, Box 352/	Burgaw, N. C.
Roberson, William	Jr. M. E	215 South, Box 354/	Durham, N. C.
Roberts, Clyde W	Sr. An. Prod	Dairy Cottage, Box 512/	weaverville, N. C.
Roberts, Ernest J.	Sr. For	139 1911, Box 3739	Windshall, N. C.
Doborts, Swanson D	50. M. E	305 5th, Box 3229230 South, Box 3562	E
Pohomes Allis F	50. Cn. E	230 South, Dox 3302	Hiddenite N. C.
Dobortson, Allie F.	Fr. C. F.	9 8th	Coldoboro N. C.
Robertson Harbart N	So A F C	110 6th, Box 3246	Knightdole N C
Robertson, Richard I	Ir For	104 C	Takoma Park Md
Robinson Gilbert C	Sr Cor F	105 South, Box 3505	Cooleemee N C
Robinson H F	Grad F C & P R	108 4th, Box 3118	Bandana N C
		1301 Hillsboro St	
Robinson Thos F	Fr M F	306 7th, Box 3372	Cana. N. C.
Roebuck, R. Bradley	Fr Ao	207 7th, Box 3339	Wilmington, N. C.
Roediger, Chas L.	Fr. Tex. Mor	2202 Hillsboro St	Greensboro, N. C.
Rogers, F. Woodrow	So. Ch. F.	303 8th	Asheville, N. C.
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Name	Classification	School Address	Home Address
Rogers, J. Ernest	Sr. Tex. Mfg	109 5th, Box 3209	Concord, N. C.
Rollings, Raymond S	Jr. E. E	116 C	Pinewood, S. C.
Kollins, James E	Jr. Poul. Sci	108 6th, Box 3244	Raleigh, N. C.
Rolston, J. Albert	Jr. Ch. E	209 Woodburn Road	Raleigh, N. C.
Rooney, Arthur E.	Sr. Ind. Arts	214 Wat., Box 5242	Bellevue, Pa.
Root, Ben H.	Fr. Ag. Ch	2220 Hillsboro St	East Orange, N. J.
Rose, George A., III	Fr. Ch. E	101 10th	Henderson, N. C.
Rose, Harvey M	Jr. Ch. E	340 1911, Box 3820	Greenville, S. C.
Rose, James F., Jr	rr. Arch. E	207 South, Box 3539 215 C	Durham, N. C.
Rose I Calvin	Sr An Prod	125 A, Box 5201	Grospoboro N. C.
Rossi Chas I	Sr C F	320 A	Torrington Conn
Rountree, Moses, Ir.	Fr Ch F	320 A 135 C	Goldshoro N. C
Rouse, David W.	Sr. E. E.	220½ Cox Ave.	Rose Hill N C
Routh, B. Z., Ir.	So. Tex. C. & D		Greensboro, N. C.
Rowe, David D., Ir.	Sr. Ch. E.	316 Wat., Box 3052	Hickory, N. C.
Rowe, Henry B	Jr. Ch. E	2407 Clark Ave	Mt. Airy, N. C.
Rowell, J. O	Grad. Entom	Fayetteville Rd., Box 5143	Raleigh, N. C.
Rowland, W. Thos., Jr	Jr. Arch. E	317 C	Charlotte, N. C.
Ruark, Chas. S	So. Ch. E	107 A	Wilmington, N. C.
Ruark, Joe C	Sr. Tex. Mfg	2407 Clark Ave	Southport, N. C.
Kudisill, B. K.	Sr. Tex. Mgt	2405 Clark Ave	Cherryville, N. C.
Rudisili, Carl B.	Fr. lex. Mtg	Fieldhouse	Cherryville, N. C.
Rudisili, Jake A., Jr	Fr. E. E.	101 South, Box 3501	Charlotte, N. C.
Rudy, D. W.	Auditor, Ag. Ec	13 S. East St	Kaleigh, N. C.
Rufty James W	Sr Tor Mat	107 Wat., Box 3007	Raleigh, N. C.
Runkle Chas D	Sr Ch F	120 Forest Road.	Poloigh N C
Rushing Chas H	Fr Ag Fd	309 9th	Monroe N C
Russell, Richard W.	Fr. M. F.	1905 Park Drive	Kinston, N. C.
Ryan, John I.	Sr. Tex. C. & D	219 A	New Bedford, Mass.
Ryburn, Wm. O., Jr.	Grad. For	130 Hawthorne Rd	Salisbury, N. C.
Ryneska, Stephen B	So. For	416 S. Boylan Ave	Amesbury, Mass.
Sabal Front P	Sr. Con F	126 8th	Comphell Ohio
Sabolala Robert	Ir Ind Area	214 Wat., Box 5242	Vanlars N V
Sadler Ralph F	Fr Aa	306 6th, Box 3266	Rurlington N C
Sales, Philip N.	Ir Ch F	310 Wat., Box 3046	Asheville, N. C.
Sampson, Joe E.	Fr. Tex. Mfg.	115 8th	Guilford College, N. C.
Sanders, H. K., Ir.	Ir. Ag. E.	118 A	Roxboro, N. C.
Sanders, R. W	_Fr. Ag		Clavton, N. C.
Sanders, S. Warren	Fr. M. E	228 8th	Wilmington, N. C.
Sandridge, Gordon R	So. Tex. C. & D	103 Chamberlain St	Charlotte, N. C.
Sanford, Carl N.	Grad. M. E	1812 Park Drive	Raleigh, N. C.
Santopolo, Frank A	So. For	326 A, Box 5507	Mt. Vernon, N. Y.
		2004 Hillsboro St., Box 5565	
Santore, Gabriel L.	Fr. Cer. E.	310 8th	N. J. Hasbrouck Heights.
			N. I.
Santos, Ernest V	Sr. Tex. C. & D	1814 Park Drive	Pasay, P. I.
Sapos, James C.	Fr. E. E	.222 Park Ave.	Winston-Salem, N. C.
Sarandria, I hos. J	So. Tex. Mfg	326 A, Box 5507	West New York, N. J.
Sarandria, William	Jr. lex. Mtg	2004 Hillsboro St.	West New York, N. J.
Sasser, C. Wayman	50. M. E	.218 South, Box 3550	Callabara N. C.
Satterwhite C. Johnson	rr. Ag Fr Ch F	.124 C	Putherford College
			NC
Sauls, H. Austin, Ir.	Fr. Tex. Mfg.	_119 8th	Winston-Salem, N. C.
Saunders, Chas. L.	Ag. Ed	Withdrew Sept. 21	Weeksville, N. C.
Saunders, Clyde W	Jr. Ag. Ch	4 South, Box 3600	Ruffin, N. C.
Sauvain, Ed. B.	Sr. Tex. Mgt	225 C	Concord, N. C.
Savini, John	Jr. Geol. E	4 South, Box 3600	North Hanover, Mass.
Savini, Oreste	Fr. Tex. Mfg.	.1 Fieldhouse, Box 5173	North Hanover, Mass.

## STUDENT DIRECTORY

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Sawyer, Frank S., Jr	Fr. E. E.	.108 10th	South Mills, N. C.
Sawyer, James H., Jr	Sr. Ç. E	209 5th, Box 3221	New Bern, N. C.
Sawyer, W. Ray	r. Ind. Arts Fr. Ch. F	2 Fieldhouse	Allentown Pa
Sayan, Max	So For	2004 Hillsboro St	Tryon, N. C.
Cahaafan Dahamt V	Co F F	330 C	N Wilkechoro N ('
Schallwig, Frank A	Fr. E. E	214 8th	.Black Mountain, N. C.
Schandler, Seymour	Sr. Tex. C. & D	214 8th	Asheville, N. C.
Schatzman, Leonard	Fr. Ασ.	129 8th2716 Everett Ave	Passaic, IV. I.
School John F III	Grad. Entom Fr Tay Mfa	101 8th	Shelby N C
Schmidt Fred H	So Flori	516 Daughtridge St.	Raleigh, N. C.
Schubart, Chas, S.	Fr. Ag. Ec	.108 5th, Box 3208	Maplewood, N. J.
Schubert, George R	Fr. For	.209 A, Box 5574	Chicago, Ill.
Schworm, Sprague	Jr. Geol. E	.102 Wat., Box 3002	Charlotte, N. C.
Scoggins, H. Dwight	Fr. Tex. Mig	304 5th, Box 3228	Wilmington, N. C.
Scott, C. C., Jr.	50. Ag. Ed	216 A	Kenly N C
Scott John A	Ir M E	113 South, Box 3513	Charlotte, N. C.
Scott, John W., Ir.	Fr. M. E	113 South, Box 3513106 9th	Warrenton, N. C.
Scott Wm L. Ir	Fr Soils		Goldshoro, N. C.
Scrivener I Ray Ir	Fr M F	109 10th	Spencer, N. C.
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Seagraves, W. P.	Grad. E. M	404 Chamberlain St	Raleigh, N. C.
Searcy, Henry M.	rr. ror So A~	13 8th237 A	Morrisville N C
Seawell Wm D	So. Ag Fr Tev Mfo	-104 8th	Greensboro, N. C.
Sedberry, G. Reece	So. Tex. Mfg	.212 6th, Box 3260	Concord, N. C.
Seegars, Neal W.	So. Ag.	.109 A	Fairfield, N. C.
Sooly I Frank	Grad Ch E	College Ct Apt 5	Chester Pa
Seitz, Wm. E	Fr. Ag. Ed.	.227 C, Box 5382	Newton, N. C.
Selkinghaus, W. E.	Grad. M. E	-2823 Kilgore St	Raleigh, N. C.
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Setser Mack S	Ir Ag	207 6th, Box 3255	Franklin, N. C.
Setzer, Chas. M., Ir.	Fr. M. E.	202 5th, Box 3214	Charlotte, N. C.
Setzer, I. D.	Ir. E. E	.135 1911, Box 3735	Maiden, N. C.
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Sharp, Walter D	Sr. E. E	302 C	Rurlington N C
Shaughnessy Martin I	Fr Ind E	307 Hillcrest Rd	Raleigh, N. C.
Shaw, A. Turner, Ir	Fr. Tex. W. & D	Cameron Ct. S-3-C	Raleigh, N. C.
Shaw, D. I	Grad. Tex. C. & D.	.2404 Hillsboro St	Hagaman, N. Y.
Shaw, James T	Sr. Tex. Mgt	.210 Groveland Ave	Macon, N. C.
Shaw, Warren C	Fr. Ag	210 7th, Box 3342	Roanoke Kapids, N. C.
Shearin, Dallas C	Jr. Ch. E	301 South, Box 3565102 7th, Box 3302	Littleton N C
Shearon Fmil C	rr, Ag. Ed Ir M F	Route 3	Raleigh, N. C.
Shearon, Kervin B.	Sr. Ch. E.	220 A	Raleigh, N. C.
Sheets, C. Herman	Fr. Ch. E	.230 7th, Box 3362	Salisbury, N. C.
Sheetz, Glenn M	So. M. E	.303 C	Allentown, Pa.
Shelburne, Vic B., Jr	Fr. Ch. E	.2212 Hope St	Washington, N. C.
Shelden, Hugh W., II	So. Ag	.528 N. Bloodworth St	Raleigh, N. C.
Shenherd D S Ir	Fr. C. E Fr. M. F	.528 N. Bloodworth St	Raleigh, N. C.
Sherratt, W. A.	Grad. Ind. Arts	.202 Groveland Ave	Glenolden, Pa.
Shevchenko, Richard P	Fr. M. E.	201 7th. Box 3333	Port Norris, N. J.
Shields, Frank P	Sr. Soils	.1922 Hillsboro St	Scotland Neck, N. C.
Shimer, C. B	Grad. For	.2207 Hope St	Kinston, N. C.
Shimer, Kalph B.	So. Ch. E	.2008 Hillsboro St	China Crove N. C.
omini, Kenneth A., Jr	So. 1 ex. IVItg	307 6th, Box 3267	.Cmna Grove, IV. C.

Name	Classification	School Address	Home Address
Shoaf, Edwin H.	_Fr. E. E	_220 7th, Box 3352	Charlotte, N. C.
Shoe, George W.	Ir. Arch. E	154 Woodburn Rd	Greenville, N. C.
Shoffner, J. Emmett	<u>t</u> r. Cer. E	_10612 E. North St	Raleigh, N. C.
Short, Robert E.	_Fr. C. E	215 7th, Box 5347 124 South, Box 3524 19 8th	Prospect Park, Pa.
Shotwell, J. Laylot		124 South, Box 3:24	Henderson, N. C.
Showalter Marla D	I I I I I I I I I I I I I I I I I I	_19 Sth _504 Dixie Trail	Last Urange, N. J.
Shumaker Richard K	F- M F	2702 Rosedale Ave.	Philadalphia Pa
Shumate, I. A., Ir.	Fr Ch F	329 7th Box 3393	Charlotte V C
Sibert, I. B.	.So. M. E	_205 5th, Box 3217 _2407 Clark Ave	Winston-Salem, N. C.
Sickerott, Carl D.	So. Tex. C. & D	2407 Clark Ave.	_Siler City, N. C.
Sidec Russon F	Fr Ton Min	74 :-1	Winners Volume VI C
Sigmon, Ross M., Jr.	Sr. E. E.	21 Enterprise St	_Salisbury, N. C.
Sikes, Lambert E.	Sr. Tex. Mig	_205 Wat., Box 3025	_Salemburg, N. C.
Silver, Chas. H.	Fr. Gen. Engr	-Midway Plantation	Raleigh, N. C.
Silver, Miss Virginia N.	Grad. Rur. 50c	105 Horne St., Box 5514	Raleigh, N. C.
Simmons, Aby W	- II. F C t- D D	2720 Bedford Ave	Gulfport, Miss.
Simmons, J. Dempsey	F. C. & F. D	200 10-1 DOX 2/00	_Seven Springs, N. C.
Simmons Paul H	Fr 4~ Fd	208 10th	Vodtingilla V C
Simmons, 1 aut 11	Fr Ch F	122 7th Ros 3337	Poraboro N C
Simpson, W. C.	St. F F	203 Stn. 302 C, Box 5531. 115 South, Box 5515. 223 South, Box 3555. 228 1911, Box 3768. 3153 Stanhope Ave.	Notiolk, Va.
Simpson, Wm. V. Ir.	.Ir. Ch. E.	-115 South, Box 5515	Greensboro, N. C.
Sims, James G.	So. Ch. E	_223 South, Box 3555	Roxboro, N. C.
Sinback, Christopher N	Jr. Ch. E.	_228 1911, Box 3768	-Tarboro, N. C.
Sinclair, James B.	Fr. Cer. E	-5153 Stanhope Ave.	Raleigh, N. C.
Singer, Jack L	Fr. M. E	_353 C	New York, N. Y.
Singsen, Edwin P.	.Grad. Poul. Sci	353 C -14 Bagwell Ave. 221 8th.	Rumford, R. I.
Sink, Archie M.	_Fr. Ag. Ed	221 Sth	_Lexington, N. C.
Sink, L. G., Jr.	.fr. Ag	_19 5th	Lexington, N. C.
Sisgoreo, Eugene		5 Gymnasium 334 Sth	Far Kockaway, N. 1.
Showronak Lactor I	C- C F		\\ 11mington, \tau\. C.
Slade C Silet It	So 20	103 C 307 South. Box 5127 2304 Clark Ave.	Franklin V
Slesinger M Leonard	Sr Tes C & D	7304 Clark Ave	Poleigh V C
Sloop, Albert VI.	FT \1 F	1-(1 <- 5	Kannanolis, N. C.
Small, A. Rav	Fr. M. E.	205 9th 2508 Vanderbilt Ave.,Box 544	Albemarle, N.C.
Small, J. Eugene	Ir. Tex. C. & D	2508 Vanderbilt Ave., Box 544	Concord, N. C.
Smart, Joseph F.	.Fr. M. E	_123 7th, Box 3323	Concord, N. C.
Smaw, Miss Annie E	.Grad. Voc. Guid	_619 W. Jones St	_Raleigh, N. C.
Smith, B. J.	Fr. Tex. Mfg	Withdrew Sept. 19	Lexington, N. C.
Smith, Carroll H., Ir.	Sr. Ch. E	209 5th, Box 3221	Bachelor, N. C.
Smith, Connor H., III	Fr. E. E.	117 7th, Box 3317	Santord, N. C.
Smith, Emmett C., Ir.	.50. Ag. Ed	D :	_ Wagram, N. C.
Smith E. 1 nos.	Ag. £0	1922 Hillsboro St.  123 7th, Box 5323  619 W. Jones St.  Withdrew Sept. 19  209 5th, Box 5221  117 7th, Box 5317  Route 5.  325 1911, Box 5805  9 8th.	Kaleign, N. C.
Smith Gay 4	F- 1~	-523 1911, DOX 2803	Score Point V C
Smith Gherman R	Ir Tay C & D	174 C	Goldshora N C
Smith, George T., It.	It C. F.	218 War Box 3036	Charlotte, N. C.
Smith, Ivan W.	Grad. Occ. Guid.	2820 Clark Avenue	Hendersonville, N. C.
Smith, John A.	Fr. Ag.	2820 Clark Avenue	Vass, N. C.
Smith, J. Ed.	Fr. Cer. E	_107 South, Box 3507	Raleigh, N. C.
Smith, J. Frank	So. Ch. E	306 5th, Box 3230	Avondale, N. C.
Smith, J. McCree	So. C. E.	_2402 Everett Ave	Raleigh, N. C.
Smith, James N., Jr.	Sr. Cer. E	_335 1911, Box 3815	New Bern, N. C.
Smith, J. Roy, Jr.	Sr. E. E.	101 South, Box 3501	_Charlotte, N. C.
Smith, John S.	St. F. C. & P. B	.213 C, Box 5322	Lincointon, N. C.
Smith, Marvin B.	II. Ag. Ed.	325 South, Box 3589 708 Florence St	Denton, N. C.
Smith Vorborns C I-	Ir Ch F		Goldeboro V. C.
Smith Ray	Ir Ao	Gymnasium, Box 5404	Nucley X I
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Smith, R. Jack, Jr.	Name	Classification	School Address	Home Address
Smith, Raymond L. Fr. Ag. Ed. 122 7th, Box 3325	Smith, R. Jack, Jr	Fr. Cer. E	102 9th	Goldsboro, N. C.
Smith, R. Sharp         So. Arch. E.         305 6sh, Box 3265         Asheville, N. C.           Smith, R. S.         Sr. F. C. & P. B. 3 Maiden Lane         Vanceboro, N. C.           Smith, Thos. A.         So. Ag. Ed.         6 South, Box 3602         Arkinson, N. C.           Smith, Wen.         Fr. Ag. Ed.         216 South, Box 3600         Charlotte, N. C.           Smith, W. L., Ir.         Sr. Ch. E.         4 South, Box 3600         Charlotte, N. C.           Smith, Wilton W.         Sr. E. E.         28 South, Box 3528         Ransomville, N. C.           Smith, Wilton W.         Sr. E. E.         232 Tyth, Box 3364         Brooklyn, N. Y.           Snakenberg, Robert L.         Ir. Ch. E.         217 Glascock St.         Raleigh, N. C.           Snaged, Edgar M.         Fr. M. E.         114 Sth.         Charlotte, N. C.           Sneed, Edgar M.         Fr. M. E.         263 Fairview Road         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Route 2.         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Route 2.         Sanford, N. C.           Snow, Grover P.         Fr. M. E.         Host Star Star Star Star Star Star Star Sta	Smith, Raymond L.	Fr. Ag. Ed	122 7th, Box 3322	Roseboro, N. C.
Smith, Thos. A.         So. Ag. Ed.         6 South, Box 3692.         Atkinson, N. C.           Smith, Walter C.         Sr. Poul. Sci.         113 Wat., Box 3013         Rich Square, N. C.           Smith, W. L., Jr.         Sr. Ch. E.         4 South, Box 3600         Charlorte, N. C.           Smith, Wilton W.         Sr. E.         128 South, Box 3528.         Ransomville, N. C.           Smith, Wilton W.         Sr. E.         128 South, Box 3528.         Ransomville, N. C.           Smoyver, Ezio.         Fr. C.         E.         232 7th, Box 3364.         Brooklyn, N. Y.           Snakenberg, Robert L.         Jr. C.         E.         217 Glascock St.         Raleigh, N. C.           Snagen, Bobert L.         Jr. C.         E.         2163 Fairview Road.         Raleigh, N. C.           Snage, Gobert L.         Jr. Fr. M. E.         114 8th.         Charlotte, N. C.           Snow, Grover P.         Fr. M. E.         Ros.         Ros.         So. G.           Snow, Grover P.         Fr. M. E.         Ros.         Ros.         So. Sanford, N. C.           Snow, Grover P.         Fr. M. E.         Ros.         Ros.         So. Sanford, N. C.           Soufer, Saul.         Jr. Tex. Mfg.         119 8th.         Broaklyn, N. Y.           Sorfer, Saul. </td <td>Smith R Sharp</td> <td>So. Arch. E.</td> <td>305 6th. Box 3265</td> <td>Asheville, N. C.</td>	Smith R Sharp	So. Arch. E.	305 6th. Box 3265	Asheville, N. C.
Smith, W. L., Jr.         Sr. Ch. E.         4 South, Box 3600.         Charlotte, N. C.           Smith, Waytat L.         Fr. Tex. Mfg.         2405 Clark Ave         Willmington, N. C.           Smith, Wilton W.         Sr. E.         128 South, Box 3528.         Ransomville, N. C.           Smoyer, Ezio.         Fr. C.         232 7th, Box 3364.         Brooklyn, N. Y.           Snakenberg, Robert L.         Jr. Ch. E.         217 Glascock St.         Raleigh, N. C.           Snapp, Wm. R., Jr.         Fr. M. E.         144 8th.         C. Charlotte, N. C.           Sneed, Edgar M.         Fr. M. E.         2633 Fairview Road.         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Roue 2.         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Roue 2.         Raleigh, N. C.           Snowler, George W.         Sr. C. E.         1620 Hillsboro St.         Wadesboro, N. C.           Soifer, Saul.         Jr. Tex. C. & D.         29 A.         Lachine, Canada           Sorrell, Russell.         Sr. Arch. E.         1405 Wake Forest Road         Raleigh, N. C.           Souther, Raymond L.         Sr. Ag. Ed.         112 5th, Box 3212         Biltmore, N. C.           Southerland, J. E.         Fr. E. E.         305 8th         Willmington, N. C. </td <td>Smith, R. S</td> <td>Sr. F. C. &amp; P. B</td> <td>3 Maiden Lane</td> <td>Vanceboro, N. C.</td>	Smith, R. S	Sr. F. C. & P. B	3 Maiden Lane	Vanceboro, N. C.
Smith, W. L., Jr.         Sr. Ch. E.         4 South, Box 3600.         Charlotte, N. C.           Smith, Waytat L.         Fr. Tex. Mfg.         2405 Clark Ave         Willmington, N. C.           Smith, Wilton W.         Sr. E.         128 South, Box 3528.         Ransomville, N. C.           Smoyer, Ezio.         Fr. C.         232 7th, Box 3364.         Brooklyn, N. Y.           Snakenberg, Robert L.         Jr. Ch. E.         217 Glascock St.         Raleigh, N. C.           Snapp, Wm. R., Jr.         Fr. M. E.         144 8th.         C. Charlotte, N. C.           Sneed, Edgar M.         Fr. M. E.         2633 Fairview Road.         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Roue 2.         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Roue 2.         Raleigh, N. C.           Snowler, George W.         Sr. C. E.         1620 Hillsboro St.         Wadesboro, N. C.           Soifer, Saul.         Jr. Tex. C. & D.         29 A.         Lachine, Canada           Sorrell, Russell.         Sr. Arch. E.         1405 Wake Forest Road         Raleigh, N. C.           Souther, Raymond L.         Sr. Ag. Ed.         112 5th, Box 3212         Biltmore, N. C.           Southerland, J. E.         Fr. E. E.         305 8th         Willmington, N. C. </td <td>Smith, Thos. A</td> <td>So. Ag. Ed</td> <td>6 South, Box 3602</td> <td>Atkinson, N. C.</td>	Smith, Thos. A	So. Ag. Ed	6 South, Box 3602	Atkinson, N. C.
Smith, W. L., Jr.         Sr. Ch. E.         4 South, Box 3600.         Charlotte, N. C.           Smith, Waytat L.         Fr. Tex. Mfg.         2405 Clark Ave         Willmington, N. C.           Smith, Wilton W.         Sr. E.         128 South, Box 3528.         Ransomville, N. C.           Smoyer, Ezio.         Fr. C.         232 7th, Box 3364.         Brooklyn, N. Y.           Snakenberg, Robert L.         Jr. Ch. E.         217 Glascock St.         Raleigh, N. C.           Snapp, Wm. R., Jr.         Fr. M. E.         144 8th.         C. Charlotte, N. C.           Sneed, Edgar M.         Fr. M. E.         2633 Fairview Road.         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Roue 2.         Raleigh, N. C.           Snow, Grover P.         Fr. M. E.         Roue 2.         Raleigh, N. C.           Snowler, George W.         Sr. C. E.         1620 Hillsboro St.         Wadesboro, N. C.           Soifer, Saul.         Jr. Tex. C. & D.         29 A.         Lachine, Canada           Sorrell, Russell.         Sr. Arch. E.         1405 Wake Forest Road         Raleigh, N. C.           Souther, Raymond L.         Sr. Ag. Ed.         112 5th, Box 3212         Biltmore, N. C.           Southerland, J. E.         Fr. E. E.         305 8th         Willmington, N. C. </td <td>Smith, Wren</td> <td>Fr. Ag. Ed</td> <td>216 South, Box 3548</td> <td>Forest City, N. C.</td>	Smith, Wren	Fr. Ag. Ed	216 South, Box 3548	Forest City, N. C.
Smith, Wyatr L         Fr. Tex. Mfg.         2405 Clark Ave         Willmington, N. C.           Smith, Wilton W.         Sr. E. E.         128 South, Box 3528.         Ransomville, N. C.           Smoyver, Ezio         Fr. C. E.         232 7th, Box 3364.         Brooklyn, N. Y.           Snagen, Robert L.         Jr. Ch. E.         217 Glascock St.         Raleigh, N. C.           Snagen, Robert L.         Jr. Fr. M. E.         114 8th.         Charlotte, N. C.           Sneed, Edgar M.         Fr. M. E.         263 Fairview Road.         Raleigh, N. C.           Snipes, Moses L.         So. For.         10 Enterprise St., Box 5065.         Sanford, N. C.           Snyder, George W.         Sr. C. Fr.         Raleigh, N. C.         Sanford, N. C.           Sorfel, Saul.         Fr. Tex. Mfg.         119 8th.         Brooklyn, N. Y.           Sorfel, Saul.         Fr. Tex. Mfg.         119 8th.         Brooklyn, N. Y.           Soufas, Chas.         Fr. Cer.         E. Withdrew Sept. 18.         Wilson, N. C.           Soufas, Chas.         Fr. Cer.         Withdrew Sept. 18.         Wilson, N. C.           Southerland, J. E.         Fr. E.         305 8th.         Williamigton, N. C.           Spargo, Loy H., Jr.         Fr. E.         13 8th.         Greensboro, N. C.	Smith, Walter C	Sr. Poul. Sci	113 Wat., Box 3013	Rich Square, N. C.
Smith, Wilton W. Sr. E. E.   128 South, Box 3328. Ransomville, N. C. Smoyver, Ezio   Fr. C. E.   232 7th, Box 3364. Brokhlyn, N. Y. Snakenberg, Robert L. Jr. Ch. E.   217 Glascock St.   Raleigh, N. C. Snapp, Wm. R. Jr.   Fr. M. E.   114 8th.   Charlotte, N. C. Sneed, Edgar M.   Fr. M. E.   114 8th.   Charlotte, N. C. Sneed, Edgar M.   Fr. M. E.   2633 Fairview Road.   Raleigh, N. C. Snow, Grover P.   Fr. M. E.   Route 2.   Route 2.   Sanford, N. C. Snow, Grover P.   Fr. M. E.   Route 2.   Raleigh, N. C. Snow, Grover P.   Fr. M. E.   Route 2.   Raleigh, N. C. Snyder, George W.   Sr. C. E.   1620 Hillsboro St.   Wadesboro, N. C. Soifer, Saul   Fr. 7ex. Mfg.   119 8th.   Broklyn, N. Y. Soroka, Jack   Jr. Tex. C. & D. 329 A.   Lachine, Canada Sorrell, Russell   Sr. Arch E.   1405 Wake Forest Road   Raleigh, N. C. Souther, Raymond L. Sr. Ag. Ed.   112 5th, Box 3212.   Biltmore, N. C. Souther, Raymond L. Sr. Ag. Ed.   112 5th, Box 3212.   Biltmore, N. C. Southerland, J. E.   Fr. E. E.   305 8th.   Willimgton, N. C. Spargo, Loy H., Jr.   Fr. E. E.   133 1911, Box 3733.   Charlotte, N. C. Spargo, Loy H., Jr.   Fr. E. E.   133 1911, Box 3733.   Charlotte, N. C. Spears, Herbert M.   So. Ag.   232 South, Box 3564.   Winston-Salem, N. C. Spears, Herbert M.   So. Ag.   232 South, Box 3564.   Winston-Salem, N. C. Spencer, B. Frank   So. Ag.   3208 Clark Ave.   Scranton, N. C. Spencer, B. Branklin   So. E.   2212 Hope St.   Goldsboro, N. C. Spruell, S. Glenn   So. For.   2402 Hillsboro St.   Leds, Ala.   Spruell, S. Glenn   So. For.   2402 Hillsboro St.   Leds, Ala.   Spruell, S. Glenn   So. For.   2402 Hillsboro St.   Leds, Ala.   Spruell, S. Glenn   So. For.   2402 Hillsboro St.   Leds, Ala.   Spruell, S. Glenn   So. For.   2402 Hillsboro St.   Leds, Ala.   Stallings, Ernest M.   Sr. M. E.   215 Wate, Box 3033.   Chaptel Hill, N. C. Stallings, Ernest M.   Sr. Ag. Ec.   239 C.   Sclman, N. C.   Stanbury, E. Eugen   Sr. C. E.   236 Sth.   Monroe, N. C.   Stanbury, E. Eugen   Sr. C. E.   236 Sth.   Monroe, N. C.   Stanbury,	Smith, W. L., Jr	Sr. Ch. E	4 South, Box 3600	Charlotte, N. C.
Smoyver, Ezio	Smith, Wyatt L	rr. lex. Mig	120 Court Roy 2520	Panagravilla N C
Snakenberg, Robert L.   T. Ch. E.   217 Glascock St.   Raleigh, N. C. Snapp, Wm. R., Jr.   Fr. M. E.   114 8th.   Charlotre, N. C. Sneed, Edgar M.   Fr. M. E.   2633 Fairview Road.   Raleigh, N. C. Snipes, Moses L.   So. For.   10 Enterprise St., Box 5065   Sanford, N. C. Snow, Grover P.   Fr. M. E.   Route 2.   Raleigh, N. C. Snyder, George W.   Sr. C. E.   1620 Hillsboro St.   Wadesboro, N. C. Soifer, Saul.   Fr. Tex. Mfg.   119 8th.   Brooklyn, N. Y. Soroka, Jack   Jr. Tex. C. & D.   329 A.   Lachine, Canada Sorrell, Russell.   Sr. Arch. E.   1405 Wake Forest Road.   Raleigh, N. C. Southar, Raymond L. Sr. Ag. Ed.   112 5th, Box 3212   Biltmore, N. C. Souther, Raymond L. Sr. Ag. Ed.   112 5th, Box 3212   Biltmore, N. C. Southerland, J. E.   Fr. E. E.   305 8th.   Wilmington, N. C. Spainhour, Carroll D.   Fr. M. E.   21 8th.   Greensboro, N. C. Spargo, Loy H., Jr.   Fr. E. E.   313 1911, Box 3733   Greensboro, N. C. Spargo, Loy H., Jr.   Fr. E. E.   232 South, Box 3564   Winston-Salem, N. C. Speas, Herbert M.   So. Ag.   232 South, Box 3564   Winston-Salem, N. C. Speas, Herbert M.   So. Ag.   232 South, Box 3564   Winston-Salem, N. C. Spencer, B. Branklin.   So. E. E.   2121 Hope St.   Goldsboro, N. C. Sprucell, S. Glenn.   So. For.   2402 Hillsboro St.   Leeds, Ala.   Sprucell, S. Glenn.   So. For.   2402 Hillsboro St.   Leeds, Ala.   Sprucell, S. Glenn.   So. For.   2402 Hillsboro St.   Leeds, Ala.   Sprucell, S. Glenn.   So. For.   2402 Hillsboro St.   Jamesville, N. C. Staro, Louise, E., Fr. Soil.   2402 Hillsboro St.   Jamesville, N. C. Staro, Louise, E., Fr. Soil.   2402 Hillsboro St.   Jamesville, N. C. Staro, Louise, E., Fr. Soil.   2402 Hillsboro St.   Jamesville, N. C. Staro, Louise, E., Fr. Soil.   2402 Hillsboro St.   Jamesville, N. C. Staro, Louise, E., Fr. Soil.   2402 Hillsboro St.   Jamesville, N. C. Staro, N. C. Staro, N. C. Staro, S. S. Frence, S. C. E.   235 7th, Box 3391   Richmond, Va. Staro, S. S. Frank, S. S. G. E.   232 South, Box 3504   S. Dartmouth, Mass. Starnes, B. Frank, Jr. Fr.	Smith, Wilton W	or. E. E	232 7th Roy 3364	Recollyn N V
Snapp, Wm. R., Jr.	Snakanberg Robert I	Ir Ch F	217 Glacock St	Raleigh N C
Snow, Grover P.	Snann Wm R Ir	Fr M F	114 8th	Charlotte N C
Snow, Grover P.	Sneed Edgar M	Fr M E	2633 Fairview Road	Raleigh, N. C.
Snow, Grover P.	Snines, Moses La	So. For.	10 Enterprise St., Box 5065	Sanford, N. C.
Snyder, George W. Sr. C. E.   1620 Hillsboro St.   Wadesboro, N. C. Soifer, Saul.   Fr. Tex. Mfg.   119 8th   Brooklyn, N. Y. Soroka, Jack   Jr. Tex. C. & D. 329 A.   Lachine, Canada   Sorrell, Russell   Sr. Arch. E.   1405 Wake Forest Road   Raleigh, N. C. Soufas, Chas. C.   Fr. Cer. E.   Withdrew Sept. 18   Wilson, N. C. Souther, Raymond L. Sr. Ag. Ed.   112 5th, Box 3212   Biltmore, N. C. Souther, Raymond L. Sr. Ag. Ed.   112 5th, Box 3212   Biltmore, N. C. Southerland, J. E.   Fr. E. E.   305 8th   Willimigton, N. C. Greensboro, N. C. Spainhour, Carroll D.   Fr. M. E.   21 8th   Greensboro, N. C. Spainhour, Carroll D.   Fr. M. E.   21 8th   Greensboro, N. C. Spainhour, Carroll D.   Fr. M. E.   2407 Clark Ave.   Winston-Salem, N. C. Spear, Warren H.   Sr. M. E.   2407 Clark Ave.   Winston-Salem, N. C. Speas, Herbert M.   So. Ag.   232 South, Box 3564   Winston-Salem, N. C. Spencer, B. Branklin   So. E. E.   2212 Hope St.   Goldsboro, N. C. Spiker, Theo. F.   Jr. For.   129 C.   Drevel Hill, Pa. Spruiell, S. Glenn   So. For.   2402 Hillsboro St.   Leeds, Ala. Spruill, Wm. H.   So. M. E.   310 6th, Box 3270   Oriental, N. C. Staly, Lucius E. Jr.   Sr. M. E.   215 Wat., Box 3033   Chapel Hill, N. C. Staly, Lucius E. Jr.   Sr. M. E.   215 Wat., Box 3033   Chapel Hill, N. C. Staly, Chas, W.   Fr. Cer. E.   316 7th, Box 3382   Greensboro, N. C. Stallings, Frest M.   Sr. Ag. Ec.   239 C.   Selma, N. C. Stallings, Frest M.   Sr. Ag. Ec.   239 C.   Selma, N. C. Stancil, W. Shirley   So. Ind. E.   Garnet   Garten, N. C.   Stancil, W. Shirley   So. Ind. E.   Garnet   Garten, N. C.   Stancil, W. M. E.   Fr. Ch. E.   326 8th   Monroe, N. C.   Stancil, W. Shirley   So. Ind. E.   Garnet   Garten, N. C.   Stancil, W. Shirley   So. Ind. E.   Garnet   Garten, N. C.   Stancil, W. Shirley   So. Ind. E.   Garnet   Garten, N. C.   Stancil, W. Shirley   So. Ind. E.   Garnet   Garten, N. C.   Stancil, W. Shirley   So. Ind. E.   Garnet   Garten, N. C.   Stancil, W. E.   Fr. Ch. E.   326 8th   Monroe, N. C.   Stancil, W. E.   Fr. C	Snow Grover P	Fr M F	Route 2	Raleigh, N. C.
Soroka, Jack	Snyder, George W	Sr. C. E	1620 Hillsboro St	Wadesboro, N. C.
Soroka, Jack	Soifer, Saul	Fr. Tex. Mfg	119 8th	Brooklyn, N. Y.
Soufas, Chas. C.         Fr. Cer. E.         Withdrew Sept. 18         Wilson, N. C.           Souther, Raymond L.         Sr. Ag. Ed.         112 5th, Box 3212         Biltmore, N. C.           Southerland, J. E.         Fr. E.         305 8th.         Wilmington, N. C.           Spargo, Loy H., Jr.         Fr. E.         21 8th.         Greensboro, N. C.           Spargo, Loy H., Jr.         Fr. E.         133 1911, Box 3733         Charlotte, N. C.           Spargo, Loy H., Jr.         Fr. E.         133 1911, Box 3733         Charlotte, N. C.           Spargo, Loy H., Jr.         Fr. E.         133 1911, Box 3733         Charlotte, N. C.           Spargo, Loy H., Jr.         Fr. C.         Charlotte, N. C.         Charlotte, N. C.           Spargo, Loy H., Jr.         Fr. E.         2407 Clark Ave.         Winston-Salem, N. C.           Speacer, B. Brank         So. Ag.         3208 Clark Ave.         Scranton, N. C.           Spencer, B. Branklin         So. E.         2212 Hope St.         Goldsboro, N. C.           Spruiell, S. Glenn.         So. For.         120 2thillsboro St.         Leeds, Ala.           Spruill, Wm. H.         So. M. E.         310 6th, Box 3270.         Oriental, N. C.           Stallings, Ervin W.         Jr. Ch. E.         326 Pth, Jr. Box 3382.         C	Soroka, Jack	Ir. Tex. C. & D	329 A	Lachine, Canada
Souther, Raymond L.         Sr. Ag. Ed.         112 5th, Box 3212         Biltmore, N. C.           Southerland, J. E.         Fr. E. E.         305 8th         Wilmington, N. C.           Sparihour, Carroll D.         Fr. M. E.         21 8th.         Greensboro, N. C.           Spargo, Loy H., Jr.         Fr. E. E.         133 1911, Box 3733         Charlotte, N. C.           Spear, Warten H.         Sr. M. E.         2407 Clark Ave.         Winston-Salem, N. C.           Speas, Herbert M.         So. Ag.         3208 Clark Ave.         Scranton, N. C.           Spencer, B. Frankin         So. Ag.         3208 Clark Ave.         Scranton, N. C.           Spencer, B. Brankin         So. E.         2212 Hope St.         Goldsboro, N. C.           Spiker, Theo. F.         Jr. For.         129 C.         Drexel Hill, Pa.           Spruill, S. Glenn         So. For.         2402 Hillsboro St.         Leeds, Ala.           Spruill, Wm. H.         So. M. E.         310 6th, Box 3270.         Oriental, N. C.           Squires, Ervin W.         Jr. Ch. E.         326 1911, Box 3806.         Draper, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Sclama, N. C.           Stallings, Frest M.         Sr. Ag. Ec.         239 C.         Sclma, N. C.	Sorrell, Russell	Sr. Arch. E	1405 Wake Forest Road	Raleigh, N. C.
Southerland, J. E.	Soufas, Chas. C	Fr. Cer. E	Withdrew Sept. 18	Wilson, N. C.
Spainhour, Carroll D.         Fr. M. F.         21 8th.         Greensboro, N. C.           Spargo, Loy H., Jr.         Fr. E. E.         131 911, Box 3733         Charlotte, N. C.           Spear, Warren H.         Sr. M. E.         2407 Clark Ave.         Winston-Salem, N. C.           Speas, Herbert M.         So. Ag         232 South, Box 3564         Winston-Salem, N. C.           Spencer, B. Frank         So. Ag         3308 Clark Ave.         Scranton, N. C.           Spencer, B. Branklin         So. E.         2212 Hope St.         Goldsboro, N. C.           Spiker, Theo. F.         Jr. For.         129 C.         Drexel Hill, Pa.           Spruill, S. Glenn.         So. For.         2402 Hillsboro St.         Leeds, Ala.           Spruill, Wm. H.         So. M. E.         310 6th, Box 3270         Oriental, N. C.           Squires, Ervin W.         Jr. Ch. E.         326 1911, Box 3806         Draper, N. C.           Stacy, Lucius E., Jr.         Sr. M. E.         215 Wat., Box 3033         Chapel Hill, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Selma, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Selma, N. C.           Stancill, W. Shirley.         So. Ind. E.         Garber, N. C. <t< td=""><td>Souther, Raymond L</td><td>Sr. Ag. Ed</td><td>112 5th, Box 3212</td><td>Biltmore, N. C.</td></t<>	Souther, Raymond L	Sr. Ag. Ed	112 5th, Box 3212	Biltmore, N. C.
Spargo, Loy H., Jr.         Fr. E. E.         133 1911, Box 3733         Charlotre, N. C.           Spear, Warren H.         Sr. M. E.         2407 Clark Ave.         Winston-Salem, N. C.           Speas, Herbert M.         So. Ag.         232 South, Box 3564         Winston-Salem, N. C.           Spencer, B. Frank         So. Ag.         3308 Clark Ave.         Scranton, N. C.           Spencer, B. Branklin         So. E.         2212 Hope St.         Goldsboro, N. C.           Spiker, Theo. F.         Jr. For.         129 C.         Drexel Hill, Pa.           Spruill, W. H.         So. M. E.         310 6th, Box 3270         Oriental, N. C.           Spruill, W. H.         So. M. E.         316 6th, Box 3332         Oriental, N. C.           Squires, Ervin W.         Jr. Ch. E.         326 1911, Box 3806         Draper, N. C.           Staley, Chas, W.         Fr. Cer. E.         316 7th, Box 3332         Chapel Hill, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Selma, N. C.           Stallings, Fr. C., Jr.         Fr. Soils         2402 Hillsboro St.         Jamesville, N. C.           Stamey, H. M.         Jr. F. C.         126 C, Box 5635         Canton, N. C.           Stancill, W. Shirley         So. Ind. E.         Garner.         Garner, N. C.	Southerland, J. E	Fr. E. E.	305 8th	Wilmington, N. C.
Spear, Warren H.         Sr. M. E.         2407 Clark Ave.         Winston-Salem, N. C.           Spease, Herbert M.         So. Ag.         3208 Clark Ave.         Scranton, N. C.           Spencer, B. Frank.         So. Ag.         3208 Clark Ave.         Scranton, N. C.           Spencer, B. Branklin         So. E.         2212 Hope St.         Goldsboro, N. C.           Spiler, Theo. F.         Jr. For.         129 C.         Drexel Hill, Pa.           Spruiell, S. Glenn.         So. For.         2402 Hillsboro St.         Leeds, Ala.           Spruill, Wm. H.         So. M. E.         310 6th, Box 3270.         Oriental, N. C.           Squires, Ervin W.         Jr. Ch. E.         326 1911, Box 3806.         Draper, N. C.           Stacy, Lucius E., Jr.         Sr. M. E.         215 Wat., Box 3033.         Chapel Hill, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Sclman, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Sclman, N. C.           Stallings, F. C., Jr.         Fr. Soils.         2402 Hillsboro St.         Jamesville, N. C.           Stancil, W. Shirley.         So. Ind. E.         Garner.         Garner, N. C.           Stancil, W. Shirley.         So. Ind. E.         Garner.         Garner, N. C.	Spainhour, Carroll D	fr. M. L	21 8th	Greensboro, N. C.
Speas, Herbert M.         So. Ag.         232 South, Box 3564         Winston-Salem, N. C.           Spencer, B. Frank.         So. Ag.         3208 Clark Ave.         Scranton, N. C.           Spencer, B. Branklin         So. E. E.         2212 Hope St.         Goldsboro, N. C.           Spiler, Theo. F.         Jr. For.         129 C.         Drexel Hill, Pa.           Spruill, S. Glenn.         So. For.         2402 Hillsboro St.         Leeds, Ala.           Spruill, Wm. H.         So. M. E.         310 6th, Box 3270.         Oriental, N. C.           Squires, Ervin W.         Jr. Ch. E.         326 1911, Box 3806.         Draper, N. C.           Stacy, Lucius E., Jr.         Sr. M. E.         215 Wat., Box 3033.         Chapel Hill, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Sclma, N. C.           Stallings, F. C., Jr.         Fr. Soils.         2402 Hillsboro St.         Jamesville, N. C.           Stancill, W. Shirley.         So. Ind. E.         Garner.         Garner, N. C.           Stancill, Ws. E. Fr. M. E.         2220 Hillsboro St.         Washington, N. C.           Stansbury, E. Eugene.         Sr. Ch. E.         Box 6, Wake Forest.         Wake Forest, N. C.           Stanton, James E.         Fr. Tex. Mfg.         104 7th, Box 3304         S	Spargo, Loy H., Jr	Fr. E. E	155 1911, Box 5/55	Charlotte, N. C.
Spencer, B. Frank.         So. Ag.         3208 Clark Ave.         Scranton, N. C.           Spencer, B. Branklin         So. E. E.         2212 Hope St.         Goldsboro, N. C.           Spiker, Theo. F.         Jr. For.         129 C.         Drexel Hill, Pa.           Spruiell, S. Glenn         So. For.         2402 Hillsboro St.         Leeds, Ala.           Spruill, Wm. H.         So. M. E.         310 6th, Box 3270.         Oriental, N. C.           Squires, Ervin W.         Jr. Ch. E.         326 1911, Box 3806.         Draper, N. C.           Stacy, Lucius E., Jr.         Sr. M. E.         215 Wat., Box 3033.         Chapel Hill, N. C.           Staley, Chas.         Fr. Cer. E.         316 7th, Box 382.         Greensboro, N. C.           Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Selma, N. C.           Stallings, Fr. C., Jr.         Fr. Soils.         2402 Hillsboro St.         Jamesville, N. C.           Stancil, W. Shirley.         So. Ind. E. Garner.         Garner.         Canton, N. C.           Stancill, W. Shirley.         So. Ind. E. Garner.         Garner.         Wake Forest.         Wake Forest.           Stanton, James E.         Fr. Tex. Mfg.         104 7th, Box 3304.         S. Dartmouth, Mass.           Starnes, B. Frank, Jr.         Fr. Ch. E. <td>Spear, Warren H.</td> <td>Sr. M. E</td> <td>222 C D 2564</td> <td>Winston-Salem, N. C.</td>	Spear, Warren H.	Sr. M. E	222 C D 2564	Winston-Salem, N. C.
Spencer B. Branklin	Speas, Herbert M	50. Ag	3200 Clork Asso	Scrapton N C
Spiker, Theo. F.	Spencer R Branklin	So. Ag	2212 Hone St	Goldeboro N. C.
Spruiell, S. Glenn	Spiker Theo F	Ir For	129 C	Drevel Hill Pa
Spruill, Wm. H         So. M. E.         310 6rh, Box 3270.         Oriental, N. C.           Squires, Ervin W         Jr. Ch. E.         326 1911, Box 3806.         Draper, N. C.           Stacy, Lucius E., Jr.         Sr. M. E.         215 Wat., Box 3033.         Chapel Hill, N. C.           Stallings, Fr. Ches.         Stallings, Ernest M.         Sr. Ag. Ec.         239 C.         Sclma, N. C.           Stallings, F. C., Jr.         Fr. Soils.         2402 Hillsboro St.         Jamesville, N. C.           Stamey, H. M         Jr. F. C.         126 C, Box 5635.         Canton, N. C.           Stancill, W. Shirley.         So. Ind. E.         Garner.         Garner, N. C.           Stancill, Wm. E.         Fr. M. E.         2220 Hillsboro St.         Washington, N. C.           Stanton, James E.         Fr. M. E.         2220 Hillsboro St.         Wake Forest, N. C.           Stanton, James E.         Fr. Tex. Mfg.         104 7th, Box 3304.         S. Dartmouth, Mass.           Starnes, B. Frank, Jr.         Fr. Ch. E.         326 8th.         Monroe, N. C.           Steiner, Walter C.         Fr. Ch. E.         326 8th.         Monroe, N. C.           Steiner, Walter C.         Fr. Ch. E.         325 7th, Box 3391.         Richmond, Va.           Stephenson, Thos. N.         Fr. M.	Spruiell, S. Glenn	So. For.	2402 Hillshoro St.	Leeds, Ala.
Squires, Ervin W.         Jr. Ch. E.         326 1911, Box 3806.         Draper, N. C.           Stacy, Lucius E., Jr.         Sr. M. E.         215 Wat., Box 3033         Chapel Hill, N. C.           Stallings, Chas. W.         Fr. Cer. E.         316 7th, Box 3382         Greensboro, N. C.           Stallings, Frest M.         Sr. Ag. Ec.         239 C.         Selma, N. C.           Stallings, F. C., Jr.         Fr. Soils         2402 Hillsboro St.         Jamesville, N. C.           Stamey, H. M.         Jr. F. C.         126 C, Box 5635         Canton, N. C.           Stancil, W. Shirley         So. Ind E.         Garner.         Garner, N. C.           Stancill, Wm. E.         Fr. M. E.         2220 Hillsboro St.         Washington, N. C.           Stanton, James E.         Fr. Tex. Mfg.         104 7th, Box 3304         S. Dartmouth, Mass.           Starnes, B. Frank, Jr.         Fr. Ch. E.         326 8th         Monroe, N. C.           Starnes, M. Eugene         Sr. Ag. Ed.         2411 Everett Ave.         Monroe, N. C.           Steiner, Walter C.         Fr. Ch. E.         209 Woodburn Rd.         Merchantville, N. J.           Stephenson, Thos. N.         Fr. C. E.         325 7th, Box 3391         Richmond, Va.           Stephenson, Thos. N.         Fr. M. E.         211 W. Jones S	Spruill, Wm. H.	So. M. E.	310 6th. Box 3270	Oriental, N. C.
Stacy, Lucius E., Jr. Sr. M. E. 215 Wat., Box 3033 Chapel Hill, N. C. Staley, Chas. W. Fr. Cer. E. 316 7th, Box 3382 Greensboro, N. C. Stallings, Ernest M. Sr. Ag. Ec. 239 C. Selma, N. C. Stallings, F. C., Jr. Fr. Soils. 2402 Hillsboro St. Jamesville, N. C. Stamey, H. M. Jr. F. C. 126 C, Box 5635 Canton, N. C. Stancil, W. Shirley. So. Ind. E. Garner. Garner, N. C. Stancill, W. Shirley. So. Ind. E. Garner. Washington, N. C. Stansbury, E. Eugene. Sr. Ch. E. Box 6, Wake Forest. Washington, N. C. Stansbury, E. Eugene. Sr. Ch. E. Box 6, Wake Forest. Wake Forest, N. C. Stanton, James E. Fr. Tex. Mfg. 104 7th, Box 3304 S. Dartmouth, Mass. Starnes, B. Frank, Jr. Fr. Ch. E. 326 8th. Monroe, N. C. Steiner, Walter C. Fr. Ch. E. 209 Woodburn Rd. Merchantville, N. J. Stephenoff, Macke S., Jr. Fr. C. E. 325 7th, Box 3391 Richmond, Va. Stephenson, Thos. N. Fr. M. E. 211 W. Jones St. Raleigh, N. C. Sternberg, Elia. Jr. C. E. 323 A. Tel Aviv, Palestine Stetson, Nathaniel. Sr. Ch. E. 340 A. New Bedford, Mass. Stevens, A. Kerr, Jr. Fr. Ag. Withdrew Sept. 25 Raeford, N. C. Stevens, Rox A., Jr. Sr. Ag. Ed. 9 South, Box 3605 Goldsboro, N. C. Stevens, Robert B. So. M. E. 311 South, Box 3575 Camden, N. C. Stewart, Larl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319 Laurinburg, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319 Laurinburg, N. C. Stimpson, James E., Jr. Fr. M. E. 119 7th, Box 3314 Mt. Airy, N. C. Stimpson, James E., Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stimpson, James E., Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive Raleigh, N. C.	Squires, Ervin W.	Ir. Ch. E		Draper, N. C.
Staley, Chas. W.         Fr. Cer. E.         316 7th, Box 3382         Greensboro, N. C.           Stallings, F. Cr. Jr.         Fr. Soils.         2402 Hillsboro St.         Jamesville, N. C.           Stamey, H. M.         Jr. F. C.         126 C, Box 5635         Canton, N. C.           Stancil, W. Shirley.         So. Ind. E.         Garner.         Garner, N. C.           Stancill, W. Shirley.         So. Ind. E.         Garner.         Garner, N. C.           Stansbury, E. Eugene.         Sr. Ch. E.         Box 6, Wake Forest.         Washington, N. C.           Stanton, James E.         Fr. Tex. Mfg.         104 7th, Box 3304         S. Dartmouth, Mass.           Starnes, B. Frank, Jr.         Fr. Ch. E.         326 8th.         Monroe, N. C.           Starnes, M. Eugene.         Sr. Ag. Ed.         2411 Everett Ave.         Monroe, N. C.           Steriner, Walter C.         Fr. Ch. E.         209 Woodburn Rd.         Merchantville, N. J.           Stephenson, Thos. N.         Fr. M. E.         211 W. Jones St.         Raleigh, N. C.           Sternberg, Elia.         Jr. C. E.         323 A         Tel Aviv, Palestine           Stevens, Restan, Jr.         Fr. Ag.         Withdrew Sept. 25.         Raeford, N. C.           Stevens, Rex A., Jr.         Sr. Ag. Ed.         9 South, Box 36	Stacy, Lucius E., Ir.	Sr M E	215 Wat., Box 3033	Chanel Hill, N. C.
Stallings, Ernest M. Sr. Ag. Ec. 239 C. Selma, N. C. Stallings, F. C., Jr. Fr. Soils 2402 Hillsboro St. Jamesville, N. C. Stamey, H. M. Jr. F. C. 126 C, Box 5635 Canton, N. C. Stancil, W. Shirley. So. Ind. E. Garner Garner, N. C. Stancill, W. Shirley. So. Ind. E. Garner Garner, N. C. Stancill, Wm. E. Fr. M. E. 2220 Hillsboro St. Washington, N. C. Stansbury, E. Eugene. Sr. Ch. E. Box 6, Wake Forest. Wake Forest, N. C. Stanton, James E. Fr. Tex. Mfg. 104 7th, Box 3304 S. Dartmouth, Mass. Starnes, B. Frank, Jr. Fr. Ch. E. 326 8th. Monroe, N. C. Starnes, M. Eugene. Sr. Ag. Ed. 2411 Everett Ave. Monroe, N. C. Steiner, Walter C. Fr. Ch. E. 209 Woodburn Rd. Merchantville, N. J. Stephenoff, Macke S., Jr. Fr. C. E. 325 7th, Box 3391 Richmond, Va. Stephenson, Thos. N. Fr. M. E. 211 W. Jones St. Raleigh, N. C. Sternberg, Elia Jr. C. E. 323 A Tel Aviv, Palestine Stetson, Nathaniel. Sr. Ch. E. 340 A New Bedford, Mass. Stevens, A. Kerr, Jr. Fr. Ag. Withdrew Sept. 25 Raeford, N. C. Stevens, Rex A., Jr. Sr. Ag. Ed. 9 South, Box 3605. Goldsboro, N. C. Stevens, Robert B. So. M. E. 311 South, Box 3573. Camden, N. C. Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319 Laurinburg, N. C. Stimson, Miss Katharine Jr. M. E. 119 7th, Box 3314 Mt. Airy, N. C. Stimson, Miss Katharine Jr. M. E. 112 Enterprise St. Varina, N. C. Stimson, Miss Katharine Jr. M. E. 112 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stockes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stockes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stockes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Staley, Chas. W	Fr. Cer. E	316 7th, Box 3382	Greensboro, N. C.
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Stansbury, E. Eugene Sr. Ch. E. Box 6, Wake Forest Wake Forest, N. C. Stanton, James E. Fr. Tex. Mfg. 104 7th, Box 3304 S. Dartmouth, Mass. Starnes, B. Frank, Jr. Fr. Ch. E. 326 8th Monroe, N. C. Starnes, M. Eugene Sr. Ag. Ed. 2411 Everett Ave. Monroe, N. C. Steiner, Walter C. Fr. Ch. E. 209 Woodburn Rd. Merchantville, N. J. Stephenoff, Macke S., Jr. Fr. C. E. 325 7th, Box 3391 Richmond, Va. Stephenson, Thos. N. Fr. M. E. 211 W. Jones St. Raleigh, N. C. Sternberg, Elia Jr. C. E. 323 A Tel Aviv, Palestine Stetson, Nathaniel Sr. Ch. E. 340 A New Bedford, Mass. Stevens, A. Kerr, Jr. Fr. Ag. Withdrew Sept. 25 Raeford, N. C. Stevens, Rex A., Jr. Sr. Ag. Ed. 99 South, Box 3605. Goldsboro, N. C. Stevens, Robert B. So. M. E. 311 South, Box 3575. Camden, N. C. Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319 Laurinburg, N. C. Stilmell, Marion L. So. Tex. C. & D. 112 A Thomasville, N. C. Stimpson, James E., Jr. Fr. M. E. 119 7th, Box 3334 Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stockes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stancil, W. Shirley	So. Ind. E	Garner	Garner, N. C.
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Stephenoff, Macke S., Jr. Fr. C. E. 325 7th, Box 3391 Richmond, Va. Stephenson, Thos. N. Fr. M. E. 211 W. Jones St. Raleigh, N. C. Sternberg, Elia. Jr. C. E. 323 A Tel Aviv, Palestine Stetson, Nathaniel. Sr. Ch. E. 340 A New Bedford, Mass. Stevens, A. Kerr, Jr. Fr. Ag. Withdrew Sept. 25 Raeford, N. C. Stevens, Rex A., Jr. Sr. Ag. Ed. 9 South, Box 3605. Goldsboro, N. C. Stevens, Robert B. So. M. E. 311 South, Box 3575 Camden, N. C. Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319 Laurinburg, N. C. Stilwell, Marion L. So. Tex. C. & D. 112 A Thomasville, N. C. Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334 Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Steiner Walter C	Fr Ch F	209 Woodburn Rd	Merchantville, N. I.
Sternberg, Elia. Jr. C. E. 323 A Tel Aviv, Palestine Stetson, Nathaniel. Sr. Ch. E. 340 A New Bedford, Mass. Stevens, A. Kerr, Jr. Fr. Ag. Withdrew Sept. 25 Raeford, N. C. Stevens, Rex A., Jr. Sr. Ag. Ed. 9 South, Box 3605. Goldsboro, N. C. Stevens, Robert B. So. M. E. 311 South, Box 3575. Camden, N. C. Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319. Laurinburg, N. C. Stiwell, Marion L. So. Tex. C. & D. 112 A Thomasville, N. C. Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334. Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stephenoff, Macke S., Ir.	Fr. C. E.	325 7th, Box 3391	Richmond, Va.
Sternberg, Elia. Jr. C. E. 323 A Tel Aviv, Palestine Stetson, Nathaniel. Sr. Ch. E. 340 A New Bedford, Mass. Stevens, A. Kerr, Jr. Fr. Ag. Withdrew Sept. 25 Raeford, N. C. Stevens, Rex A., Jr. Sr. Ag. Ed. 9 South, Box 3605. Goldsboro, N. C. Stevens, Robert B. So. M. E. 311 South, Box 3575. Camden, N. C. Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319. Laurinburg, N. C. Stiwell, Marion L. So. Tex. C. & D. 112 A Thomasville, N. C. Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334. Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stephenson, Thos. N.	.Fr. M. E	.211 W. Jones St	Raleigh, N. C.
Stetson, Nathaniel	Sternberg, Elia	Ir. C. E.	323 A	Tel Aviv. Palestine
Stevens, A. Kerr, Jr. Fr. Ag. Withdrew Sept. 25 Raeford, N. C. Stevens, Rex A., Jr. Sr. Ag. Ed. 9 South, Box 3605. Goldsboro, N. C. Stevens, Robert B. So. M. E. 311 South, Box 3575. Camden, N. C. Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319. Laurinburg, N. C. Stilwell, Marion L. So. Tex. C. & D. 112 A. Thomasville, N. C. Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334. Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stetson, Nathaniel	Sr. Ch. E	_340 A	New Bedford, Mass.
Stewens, Robert B	Stevens A Kerr Ir	Fr Aa	Withdrew Sent 25	Raeford, N. C.
Stewart, Earl L., Jr. Fr. Ind. Arts. 326 C. Roxboro, N. C. Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319. Laurinburg, N. C. Stilwell, Marion L. So. Tex. C. & D. 112 A. Thomasville, N. C. Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334. Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stevens, Rex A., Jr.	Sr. Ag. Ed	9 South, Box 3605	Goldsboro, N. C.
Stewart, J. W. Claud, Jr. Fr. M. E. 119 7th, Box 3319 Laurinburg, N. C. Stilwell, Marion L. So. Tex. C. & D. 112 A Thomasville, N. C. Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334 Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stevens, Robert B	So. M. E	311 South, Box 3575	Camden, N. C.
Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334 Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stewart, Earl L., Jr.	Fr. Ind. Arts	326 C	Roxboro, N. C.
Stimpson, James E., Jr. Fr. M. E. 202 7th, Box 3334 Mt. Airy, N. C. Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stewart, J. W. Claud, Jr	M. E	119 /th, Box 3319	Laurinburg, N. C.
Stinson, Miss Katharine Jr. M. E. 11 Enterprise St. Varina, N. C. Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stilwell, Marion L.	50. Tex. C. & D	112 A	I nomasville, N. C.
Stockard, H. Jerome, Jr. Fr. Gen. Engr. 705 Hillsboro St. Raleigh, N. C. Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stineon Mice Katherine	Ir M E	11 Enterprise St	Varina N C
Stoddard, D. L. Grad. Pl. P. 2316 Hillsboro St. Hyattsville, Md. Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207 Lenwood, N. C. Stone, Carl V. Fr. Cer. E. 1107 Mordecai Drive. Raleigh, N. C.	Stockard H Jaroma Ir	Fr Gen Engr	705 Hillshoro St	Raleigh N C
Stokes, Eston S. Jr. Ag. Ed. 107 5th, Box 3207. Lenwood, N. C. Stone, Carl V. Raleigh, N. C.	Stoddard, D. L.	Grad. Pl. P.	2316 Hillshoro St.	Hyattsville, Md.
Stone, Carl V. Raleigh, N. C. Raleigh, N. C.	Stokes, Eston S.	Ir. Ag. Ed	107 5th, Box 3207	Lenwood, N. C.
Stout, Paul E. So. C. E. 117 C. High Point, N. C. Strait, John H. Fr. M. E. 339 1911, Box 3819 Biddeford, Maine	Stone, Carl V.	Fr. Cer. E	1107 Mordecai Drive	Raleigh, N. C.
Strait, John H. Fr. M. E. 339 1911, Box 3819 Biddeford, Maine	Stout, Paul E	So. C. E	_117 C	High Point, N. C.
	Strait, John H	Fr. M. E	_339 1911, Box 3819	Biddeford, Maine

Strawbridge	Name	Classification	School Address	Home Address
Strickland, A. T.   Sr. C. E.   Box 1315, Cary.   Cary. N. C.	Strawbridge, I. Nelson	Jr. E. E.	2513 Clark Ave	Durham, N. C.
Strickland, A. T. Sr. C. E. Box 13, Cary. C. Cary, N. C. Strickland, A. T. Sr. C. E. Mfg. 12 South, Box 3608. Nashville, N. C. Stripling, Sheldon A. Fr. Cer. E. 131 7th, Box 3501. Raleigh, N. C. Stripling, Sheldon A. Fr. Cer. E. 131 7th, Box 3531. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 303 C. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 303 C. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 305 C. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 305 C. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 305 C. Stroupe, Joseph J. Sr. C. E. 101 C. Southern Pines, N. C. Stroupe, Joseph J. Sr. C. E. 305 Wat., Box 3059. Southern Pines, N. C. Stroupe, Jack. Fr. Ag. Withdrew Sept. 22 Cherryville, N. C. Strutthers, David L. Jr. So. C. E. 305 Wat., Box 3059. Willmington, N. C. Strutt, R. F., Jr. Fr. Ag. 10 9th. Rowland, N. C. Stuart, Adrian N. So. Tex. C. & D. 117 C. Snow Camp, N. C. Stuatts, R. F., Jr. Fr. Ag. 10 9th. Rowland, N. C. Stuckey, Milton A. Fr. Gen. Engr. 1911 Sanset Drive. Rowland, N. C. Stuckey, Milton A. Fr. Gen. Engr. 1911 Sanset Drive. Fremont, N. C. Stutkey, James M. So. Ch. E. 332 1911, Box 3512. Black Mountain, N. C. Stutts, James L. Jr. M. E. 112 South, Box 3512. Black Mountain, N. C. Sugg, J. Llovd. Fr. E. 115 South, Box 3531. Black Mountain, N. C. Sugg, J. Royston. Fr. Ag. Ed. 115 7th, Box 3318. Whiteville, N. C. Suggs, J. Royston. Fr. Ag. Ed. 115 7th, Box 3318. Whiteville, N. C. Sullivan, E. Thos. So. For. 315 A. Douglaston, N. Y. Sullivan, Chas. S. Fr. W. C. Sw. 221 South, Box 3535. Asheville, N. C. Sullivan, E. Thos. So. For. 315 A. Douglaston, N. Y. Sullivan, E. Thos. So. For. 315 A. Douglaston, N. Y. Sullivan, J. W. Jr. Ind. Arts. 202 South, Box 3540. Whiteville, N. C. Sullivan, E. Thos. So. For. 315 A. Douglaston, N. Y. Sullivan, E. Thos. So. For. 315 A. Douglaston, N. C. Suther, Fred D., Jr. Fr. Ag. Ed. 105 6th, Box 3245. Charlotte, N. C. Suther, Fred D., Jr. Fr. Ag. Ed. 105 6th, Box 3244. Colony, N. C. Suther, Fred D., Jr. Fr. Tex. Mfg. 324 South, Box 3559. Shelmen, N. C. Suthern, John H., Jr. Fr. M. E. 204 South, Box 354	Strayhorne, George V.	So. M. E.	218 Wat., Box 3036	Spencer, N. C.
Strickland, Roscoc C. So. Tex. Mig. 12 South, Box 3608. Nashville, N. C. Stropg, Harry G. Fr. Cer. E. 1317 th, Box 3531. Raleigh, N. C. Stropg, Harry G. Fr. Cer. E. 205 Sth. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 305 C. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 305 C. Bryn Mawr, Pa. Strong, M. D. Jr. Ch. E. 305 C. Bryn Mawr, Pa. Strong, M. D. Jr. Fr. C. & P. B. 122 C, Box 5282. Cherryville, N. C. Stropp, Howell W. Jr. Fr. C. & P. B. 122 C, Box 5282. Cherryville, N. C. Stroupe, Jack Fr. Ag. Withdrew Sept. 22. Cherryville, N. C. Struthers, David L. Jr. So. C. E. 303 Wat., Box 3039. Willmington, N. C. Strutters, David L. Jr. So. C. E. 303 Wat., Box 3039. Willmington, N. C. Strutter, Bryndiel, Jr. Fr. Ag. 10 9th. Rowland, N. C. Strutker, Adrian N. So. Tex. C. & D. 117 C. Snow Camp, N. C. Strutker, Robert C. Jr. Jr. Cer. E. 3109 Hillsboro St. Rockingham, N. C. Strutkey, Robert C. Jr. Jr. Cer. E. 3109 Hillsboro St. Raleigh, N. C. Strutkey, James M. So. Ch. E. 352 South, Box 3512. Albernarle, N. C. Strutkey, James M. So. Ch. E. 352 South, Box 3512. Black Mountain, N. C. Strutkey, James M. So. Ch. E. 312 South, Box 3512. Black Mountain, N. C. Suzgs, J. Royston. Fr. Ag. Ed. 118 7th, Box 3514. Whiteville, N. C. Suzgs, J. Royston. Fr. Ag. Ed. 118 7th, Box 3514. Whiteville, N. C. Sullivan, Chas. S. Fr. W. C. & M. 221 South, Box 3555. Asheville, N. C. Sullivan, Chas. S. Fr. W. C. & M. 221 South, Box 3555. Asheville, N. C. Sullivan, J. W. Jr. Ind. Arts. 302 South, Box 3562. West Brighton, N. Y. Sullivan, J. W. Jr. Ind. Arts. 302 South, Box 3562. West Brighton, N. Y. Sullivan, J. E. Thos. So. For. M. E. 350 South, Box 3562. Stratesville, N. C. Summer, Jesse W. Fr. Ag. Ed. 10 Sth., South, Box 3562. Stratesville, N. C. Summer, Jesse W. Fr. Ag. Ed. 10 Sth., Box 3401. Scatesville, N. C. Summer, Jesse W. Fr. Ag. Ed. 10 Sth., Box 3540. Scatesville, N. C. Suthert, Grorge A. Sr. M. E. 35 South, Box 3562. Scatesville, N. C. Suthern, John H., Jr. Fr. M. E. 35 South, Box 3562. Scatesville, N. C. Suthern, John H., Jr. Fr. Tex. Mig. 324	Strickland A T	Sr C E	Box 13. Carv	Carv. N. C.
Stroup, Howell W	Semiabland Passas C	So Tax Mita	17 South Roy 3608	Nacharilla N. C.
Stroup, Howell W	Stripling, Sheldon A	Fr. Cer. E	131 7th, Box 3331	Raleigh, N. C.
Stroup, Howell W	Strong, Harry G	Fr. Cer. E	205 8th	Bryn Mawr, Pa.
Stroup, Howell W.   Jr. F. C. & P. B.   122 C, Box 5282   Cherryville, N. C. Stroupe, Jack   Fr. Ag   Withdrew Sept. 22. Cherryville, N. C. Stroupe, Jack   Jr. So. C. E.   303 Wat, Box 5039   Willimington, N. C. Struart, Adrian N. So. Tex. C. & D.   117 C   Snow Camp, N. C. Struart, R. F., Jr.   Fr. Ag   10.9th   Rowland, N. C. Strubs, Wm. B.   Fr. M. E.   227 sth.   Rockingham, N. C. Strubs, Wm. B.   Fr. M. E.   227 sth.   Rockingham, N. C. Strubs, Wm. B.   Fr. M. E.   227 sth.   Rockingham, N. C. Strubs, Wm. B.   Fr. M. E.   1911 Sunset Drive   Fremont, N. C. Strukey, James M.   So. Ch. E.   532 1911, Box 5812.   Albernarle, N. C. Strukey, James M.   So. Ch. E.   532 1911, Box 5812.   Albernarle, N. C. Strukey, James M.   So. Ch. E.   532 1911, Box 5812.   Albernarle, N. C. Strukey, James M.   Fr. E.   519 South, Box 5353.   Varina, N. C. Strukey, James M.   Fr. E.   519 South, Box 5353.   Varina, N. C. Strukey, James M.   Fr. E.   519 South, Box 5353.   Warina, N. C. Strukey, James M.   Fr. E.   519 South, Box 5353.   Whiteville, N. C. Strukey, James M.   Fr. M. E.   1806 Hillsboro St.   Princeton, N. C. Strukey, James M.   Fr. M. E.   1806 Hillsboro St.   Princeton, N. C. Strukey, James M.   Fr. M. E.   1806 Hillsboro St.   Princeton, N. C. Strukey, James M.   Fr. M. E.   211 South, Box 5353.   Whiteville, N. C. Strukey, James M.   Fr. Ag. Ed.   137 fth, Box 5318.   Whiteville, N. C. Strukey, John J. J. W.   Jr. Ind. Arts.   201 South, Box 5262.   West Biphton, N. Y. Stummers, I. Neil, Jr.   Fr. Ag. Ed.   137 fth, Box 3401.   Stratesville, N. C. Sumpter, Fred P., Jr.   Fr. Mg. E.   Withdrew Sept. 11.   Roxboro, N. C. Surther, George A.   St. M. E.   Withdrew Sept. 11.   Roxboro, N. C. Surther, George A.   St. M. E.   13 South, Box 3583.   Charlotte, N. C. Charlotte, N. C. Suther, John H., Jr.   Fr. Tex. Mfg.   232 South, Box 3583.   Charlotte, N. C. Suther, John H., Jr.   Fr. Tex. Mfg.   232 Hillsboro St.   Statesville, N. C. Charlotte, N. C. Suther, John H., Jr.   Fr. Tex. Mfg.   192 Hillsboro St.   Stat	Strong, M. D.	Jr. Ch. E		Bryn Mawr, Pa.
Struthers, David L., Jr. So. C. E. 303 Wat., Box 3039	Stroud, Joseph J	Sr. C. E	122 C. P 5282	Southern Pines, N. C.
Struthers, David L., Jr. So. C. E. 303 Wat., Box 3039	Stroup, Howell W	Jr. r. C. & r. D	Wiehdern Sone 22	Charmilla N. C.
Stuart, Adrian N	Stroupe, Jack		303 Wat Roy 3030	Wilmington N. C.
Stuatr, R. F., Jr.	Structers, David L., Ji	So Tay C & D	117 C	Snow Camp N C
Stubbs	Stuart R F Ir	Fr Ao	10 9th	Rowland, N. C.
Stuckey, Milton A. Fr. Gen. Engr. 1911 Sunset Drive. Fremont, N. C. Stuckey, Robert C. Jr. Jr. Cer. E. 3109 Hillsboro St. Raleigh, N. C. Sturkey, James M. So. Ch. E. 352 1911, Box 3512. Albemarle, N. C. Sturkey, James L. Jr. M. E. 112 South, Box 3512. Black Mountain, N. C. Suggs, J. Llovd. Fr. E. 539 South, Box 3512. Black Mountain, N. C. Suggs, J. Llovd. Fr. E. 539 South, Box 3513. Varina, N. C. Suggs, Wm. J. Fr. M. E. 1806 Hillsboro St. Princeton, N. C. Suggs, J. Royston. Fr. Ag. Ed. 118 7th, Box 3518. Whiteville, N. C. Sullivan, Chas. S. Fr. W. C. & M. 221 South, Box 3535. Asheville, N. C. Sullivan, E. Thos. So. For. 315 A. Douglaston, N. Y. Sullivan, E. Thos. So. For. 315 A. Douglaston, N. Y. Sullivan, J. W. Jr. Ind. Arts. 202 South, Box 3502. West Brighton, N. Y. Summers, L. Neil, Jr. Fr. Ag. Ed. 135 7th, Box 3401. Stratesville, N. C. Sumpter, Jesse W. Fr. Ag. Ed. 10 Sth. Surnert, W. Quentin, Jr. For. Br. M. E. Withdrew Sept. 11 Roxboro, N. C. Surnert, W. Quentin, Jr. For. Br. M. E. Withdrew Sept. 11 Roxboro, N. C. Suther, Fred L. Jr. Fr. Tex. Mfg. 324 South, Box 3585. Charlotte, N. C. Suther, George A. St. M. E. 15 South, Box 3609. Charlotte, N. C. Sutten, John H. Jr. Fr. M. E. 204 8th. Society of Charlotte, N. C. Sutten, John H. Jr. Fr. Tex. Mgt. 1922 Hillsboro St. Statesville, N. C. Sutten, Wallace M. So. Tex. W. 8D. 3573/E. Jones St. Rocky Mount, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3242. Goldsboro, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3255. Drange, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3255. Drange, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3255. Drange, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3255. Drange, N. C. Tarlon, C. W. Fr. Ag. Ed. 213 Cra. Box 325	Stubbe Wm B	Fr M F	227 Sth	Rockingham N C
Sturtey, James M. So. Ch. E. 392 1911, Box 3812. Albemarle, N. C. Suttes, James L. Jr. M. E. 112 South, Box 3512. Black Mountain, N. C. Sugg, J. Llovd Fr. E. E. 319 South, Box 3535. Varina, N. C. Sugg, Wm. J. Fr. M. E. 1806 Hillsboro St. Princeton, N. C. Sugg, J. Royston. Fr. Ag. Ed. 118 7th, Box 3518. Whiteville, N. C. Sullivan, Chas. S. Fr. W. C. & M. 221 South, Box 3553. Asheville, N. C. Sullivan, E. Thos. So. For. 515 A. Douglaston, N. Y. Sullivan, E. Thos. So. For. 515 A. Douglaston, N. Y. Sullivan, J. W. Jr. Ind. Arts. 202 South, Box 3526. West Brighton, N. Y. Sullivan, J. W. Jr. Fr. Ag. Ed. 135 7th, Box 3401. Statesville, N. C. Sumner, Jesse W. Fr. Ag. Ed. 10 Sth. Conway, N. C. Sumner, Jesse W. Fr. Ag. Ed. 10 Sth. Conway, N. C. Surrart, W. Quentin. Jr. For. 116 Groveland Ave. Burlington, N. C. Surher, George A. Sr. M. E. 13 South, Box 3588. Charlotte, N. C. Suther, George A. Sr. M. E. 13 South, Box 3608. Charlotte, N. C. Suther, John H. Jr. Fr. M. E. 204 Sth. Concord, N. C. Suttennield, W. Harry, Jr. Fr. Rev. Mgt. 1922 Hillsboro St. Statesville, N. C. Sutton, David A. Sr. Ag. Ed. 106 6th, Box 3242. Goldsboro, N. C. Sutton, David A. Sr. Ag. Ed. 106 6th, Box 3242. Goldsboro, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swain, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swain, B. Clayton. Jr. E. E. 210 6th, Box 3259. Richmond Hill, N. Y. Sweet, Harold M. Fr. M. E. 112 Sth. Southern Pines, N. C. Draper, N. C. Swinney, Grover C. Jr. Fr. E. E. 59th. Draper, N. C. Draper, N. C. Taylor, G. Stanley. Fr. For. So. M. E. 107 A. Southern Pines, N. C. Taylor, G. Stanl	Stuckey, Milton A.	Fr. Gen. Engr	1911 Sunset Drive	Fremont, N. C.
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Stutts, James L	Stutter James M	So ('h F	117 1911 Box 1817	Albemarle, N. C.
Suggs, Wm. J.         Fr. M. E.         L506 Hillsboro St.         Princeton, N. C.           Suggs, J. Royston.         Fr. W. C. & M.         221 South, Box 5318.         Whiteville, N. C.           Sullivan, Chas. S.         Fr. W. C. & M.         221 South, Box 3553.         Asheville, N. C.           Sullivan, J. W.         Jr. Ind. Arts.         202 South, Box 5262.         West Brighton, N. Y.           Summers, L. Neil, Jr.         Fr. Ag. Ed.         133 7th, Box 3401.         Statesville, N. C.           Summer, Jesse W.         Fr. Ag. Ed.         135 7th, Box 3401.         Statesville, N. C.           Summer, Jesse W.         Fr. Ag. Ed.         135 7th, Box 3401.         Statesville, N. C.           Surratt, W. Quentin.         Jr. For.         1.16 Groveland Ave.         Burlington, N. C.           Surtart, W. Quentin.         Jr. For.         1.16 Groveland Ave.         Burlington, N. C.           Suther, George A.         Sr. M. E.         13 South, Box 5588.         Charlotte, N. C.           Suther, John H., Jr.         Fr. Tex. Mfg.         324 South, Box 5609.         Charlotte, N. C.           Sutton, David A.         Sr. Ag. Ed.         1.06 6th, Box 3242.         Goldsboro, N. C.           Sutton, David A.         Sr. Ag. Ed.         1.06 6th, Box 3225.         Cycle, N. C.           Swanke	Stutts, James L	Jr. M. E	112 South, Box 3512	Black Mountain, N. C.
Suggs, Wm. J.         Fr. M. E.         L506 Hillsboro St.         Princeton, N. C.           Suggs, J. Royston.         Fr. W. C. & M.         221 South, Box 5318.         Whiteville, N. C.           Sullivan, Chas. S.         Fr. W. C. & M.         221 South, Box 3553.         Asheville, N. C.           Sullivan, J. W.         Jr. Ind. Arts.         202 South, Box 5262.         West Brighton, N. Y.           Summers, L. Neil, Jr.         Fr. Ag. Ed.         133 7th, Box 3401.         Statesville, N. C.           Summer, Jesse W.         Fr. Ag. Ed.         135 7th, Box 3401.         Statesville, N. C.           Summer, Jesse W.         Fr. Ag. Ed.         135 7th, Box 3401.         Statesville, N. C.           Surratt, W. Quentin.         Jr. For.         1.16 Groveland Ave.         Burlington, N. C.           Surtart, W. Quentin.         Jr. For.         1.16 Groveland Ave.         Burlington, N. C.           Suther, George A.         Sr. M. E.         13 South, Box 5588.         Charlotte, N. C.           Suther, John H., Jr.         Fr. Tex. Mfg.         324 South, Box 5609.         Charlotte, N. C.           Sutton, David A.         Sr. Ag. Ed.         1.06 6th, Box 3242.         Goldsboro, N. C.           Sutton, David A.         Sr. Ag. Ed.         1.06 6th, Box 3225.         Cycle, N. C.           Swanke	Sugg, J. Lloyd	Fr. E. E.	319 South, Box 3583	Varina, N. C.
Sullivan, E., Ihos. So., For. 313 A. Douglaston, N. I. Sullivan, J. W. Ir. Ind. Arts. 202 South, Box 5262. West Brighton, N. Y. Summers, L. Neil, Jr. Fr. Ag. Ed. 133 7th, Box 3401. Scatesville, N. C. Sumper, Fred P., Jr. Fr. Ag. Ed. 10 8th. Conway, N. C. Sumper, Fred P., Jr. Fr. M. E. Withdrew Sept. 11 Roxboro, N. C. Surper, Fred P., Jr. Fr. Tex. Mfg. 324 South, Box 3588. Charlotte, N. C. Suther, George A. Sr. M. E. 13 South, Box 3589. Charlotte, N. C. Suther, George A. Sr. M. E. 13 South, Box 3589. Charlotte, N. C. Suther, John H., Jr. Fr. M. E. 204 8th. Concord, N. C. Suttenfield, W. Harry, Jr. Fr. Tex. Mfg. 1922 Hillsboro St. Statesville, N. C. Sutton, David A. Sr. Ag. Ed. 106 6th, Box 3242. Goldsboro, N. C. Sutton, Wallace M. So. Tex. W. & D. 537½ E. Jones St. Rocky Mount, N. C. Swaim, B. Clayton Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton Jr. Fr. For. 323 7th, Box 3345. Poughkeepsie, N. Y. Sweeney, Edwin J. Fr. For. 323 7th, Box 3389. Richmond Hill, N. Y. Sweet, Harold M. Fr. M. E. 112 8th. Spencer, N. C. Sweezy, H. L. Grad. For. 414 Chamberlain St. Locust Grove, Okla. Swett, James B., Jr. So. M. E. 107 A. Southern Pines, N. C. Swinney, Grover C. Jr. Fr. E. E. 59th. Draper, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tarlor, Harold G. So. Ag. 208 218 C. Dunn, N. C. Tarlor, Harold G. So. Ag. 209 A. Seaboard, N. C. Tarlor, Harold G. So. Ag. 209 A. Seaboard, N. C. Tarlor, Harold G. So. Ag. 209 A. Seaboard, N. C. Tarlor, Harold G. So. Ag. 209 A. Seaboard, N. C. Tarlor, Roger G. Fr. M. E. 2513 Clark Ave. High Point, N. C. Tarlor, Roge	C II' I	E- M E	1806 Hillchoro St	Princeton \ (
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Summers, L. Neil, Jr. Fr. Ag. Ed. 133 7th, Box 3401. Statesville, N. C. Sumner, Jesse W. Fr. Ag. Ed. 10 8th. Conway, N. C. Sumpter, Fred P., Jr. Fr. M. E. Withdrew Sept. 11 Roxboro, N. C. Surratt, W. Quentin. Jr. For. 116 Groveland Ave. Burlington, N. C. Suther, Fred L., Jr. Fr. Tex. Mfg. 324 South, Box 3588. Charlotte, N. C. Suther, George A. Sr. M. E. 13 South, Box 3609. Charlotte, N. C. Suther, John H., Jr. Fr. M. E. 204 8th. Concord, N. C. Suther, John H., Jr. Fr. M. E. 204 8th. Concord, N. C. Sutton, David A. Sr. Ag. Ed. 106 6th, Box 3242. Goldsboro, N. C. Sutton, Wallace M. So. Tex. W. & D. 537½ E. Jones St. Rocky Mount, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3245. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swaim, B. Clayton. Jr. E. E. 213 7th, Box 3345. Poughkeepsie, N. Y. Sweeney, Edwin J. Fr. For. 323 7th, Box 3349. Richmond Hill, N. Y. Sweet, Harold M. Fr. M. E. 213 7th, Box 3345. Poughkeepsie, N. Y. Sweet, Harold M. Fr. M. E. 112 8th. Spencer, N. C. Sweezy, H. L. Grad. For. 414 Chamberlain St. Locust Grove, Okla. Swett, James B., Jr. So. M. E. 107 A. Southern Pines, N. C. Swinney, Grover C. Jr. Fr. E. E. 59th. Draper, N. C. Swinney, Grover C. Jr. Fr. E. E. 59th. Draper, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3255. Marshville, N. C. Tarlton, C. W. Fr. Ag. Ed. 228 C. Dunn, N. C. Tart, C. Vic. So. Ag. Ed. 228 C. Dunn, N. C. Tarlton, H. M., Jr. St. M. E. 2215 Clark Ave. Brooklyn, N. Y. Talley, Glaude E. Jr. E. E. 102 Wat., Box 3002. Semora, N. C. Tarlor, H. M., Jr. St. M. E. 2215 Clark Ave. Brooklyn, N. C. Tarlor, H. M., Jr. St. M. E. 2215 Clark Ave. Brooklyn, N. C. Tarlor, H. M., Jr. Ch. E. 2708 Vanderbilt Ave. Raleigh, N. C. Tarlor, Harold G. So. Ag. 109 A. Seaboard, N. C. Tarlor, Harold G. So. Ag. 109 A. Seaboard, N. C. Tarlor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C. Tarlor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C. Tarlor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C. Tarlor, James R., Jr. Fr. Arch. E. 305 Th, Box 3571 Roanoke Rapid	Sullivan, E. I hos	50. F OT	202 S -1 P 2262	Douglaston, N. I.
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Suther, Fred L., Jr.         Fr. Tex Mfg.         324 South, Box 3588.         Charlotte, N. C.           Suther, George A.         Sr. M. E.         13 South, Box 3609.         Charlotte, N. C.           Suther, John H., Jr.         Fr. M. E.         204 Sth.         Concord, N. C.           Sutton, David A.         Sr. Ag. Ed.         1922 Hillsboro St.         Statesville, N. C.           Sutton, David A.         Sr. Ag. Ed.         106 6th, Box 3242.         Goldsboro, N. C.           Sutton, Wallace M.         So. Tex. W. & D. 5373/E. Jones St.         Rocky Mount, N. C.           Swaim, B. Clayton         Jr. E.         210 6th, Box 3248.         Cycle, N. C.           Swaim, B. Clayton         Jr. E.         210 6th, Box 3258.         Cycle, N. C.           Swaim, B. Clayton         Jr. E.         210 6th, Box 3258.         Cycle, N. C.           Swaim, B. Clayton         Jr. E.         213 6th, Box 3245.         Poughkeepsie, N. Y.           Sweenev, Edwin J.         Fr. For.         523 7th, Box 3345.         Poughkeepsie, N. Y.           Sweenev, Edwin J.         Fr. For.         523 7th, Box 3345.         Poughkeepsie, N. Y.           Sweenev, Edwin J.         Fr. For.         52 37 th, Box 3345.         Poughkeepsie, N. Y.           Sweenev, Edwin J.         Fr. M. E.         112 8th	Current II Quantin	Ir For	116 Groveland Ave	Burlington N (
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Suttenheld, W. Harry, Jr., Fr. 1ex. Mgt. 1922 Hillsboro St. Statesville, N. C. Sutton, David A. Sr. Ag. Ed. 106 6th, Box 3242. Goldsboro, N. C. Sutton, Wallace M. So. Tex. W. & D. 537½ E. Jones St. Rocky Mount, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swanker, Ralph H. Fr. M. E. 213 7th, Box 3345. Poughkeepsie, N. Y. Sweeney, Edwin J. Fr. For. 523 7th, Box 5389. Richmond Hill, N. Y. Sweet, Harold M. Fr. M. E. 112 8th. Spencer, N. C. Sweezy, H. L. Grad. For. 414 Chamberlain St. Locust Grove, Okla. Swett, James B., Jr. So. M. E. 107 A. Southern Pines, N. C. Swinney, Grover C., Jr. Fr. E. E. 59th. Draper, N. C. Tager, Sidney. Jr. Tex. Mfg. 2304 Clark Ave. Brooklyn, N. Y. Talley, Claude E. Jr. E. E. 102 Wat., Box 3002. Semora, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tart, C. Vic. So. Ag. Ed. 228 C. Dunn, N. C. Tatte, Lawrence H. Fr. M. E. Cameron Park Apt. 3 Raleigh, N. C. Taylor, G. Stanley. Fr. Ag. Ed. 133 7th, Box 3401. Jackson, N. C. Taylor, G. Stanley. Fr. Ag. Ed. 133 7th, Box 3401. Jackson, N. C. Taylor, Harold G. So. Ag. 109 A. Seaboard, N. C. Taylor, Harold G. So. Ag. 109 A. Seaboard, N. C. Taylor, Lawrence H., Jr. Fr. Arch. E. 39th. Charlotte, N. C. Taylor, Lawrence H., Jr. Fr. For. 305 7th, Box 3371. Roanoke Rapids, N. C. Taylor, Lawrence H., Jr. Fr. For. 305 7th, Box 3371. Roanoke Rapids, N. C. Taylor, Lawrence H., Jr. Fr. For. 305 7th, Box 3371. Roanoke Rapids, N. C. Taylor, Roger G. Fr. M. E. 2515 Clark Ave. High Point, N. C. Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C. Taylor, Granville, Jr. Sr. M. E. 203 Wat., Box 3018. Hanes, N. C. Taylor, T. K. Sr. Tex. Mfg. 118 Wat., Box 3021. Asheville, N. C. Taylor, W. Granville, Jr. Sr. M. E. 203 Wat., Box 3021. Asheville, N. C. Taylor, W. Granville, Jr. Sr. M. E. 203 Swat., Box 3021. Asheville, N. C. Taylor, Dawrence H., Jr. Geol. E. 120 South, Box 3579. Slier City, N. C. Teague, Norwood Ir. Ind. Arts. 2714 Vanderbilt Ave. Raleigh, N. C. Teague, Norwood Ir. Ind. Arts. 2714 Vanderbilt Ave. Raleigh	Suther, George A	Sr. M. E.	13 South, Box 3609	Charlotte, N. C.
Suttenheld, W. Harry, Jr., Fr. 1ex. Mgt. 1922 Hillsboro St. Statesville, N. C. Sutton, David A. Sr. Ag. Ed. 106 6th, Box 3242. Goldsboro, N. C. Sutton, Wallace M. So. Tex. W. & D. 537½ E. Jones St. Rocky Mount, N. C. Swaim, B. Clayton. Jr. E. E. 210 6th, Box 3258. Cycle, N. C. Swanker, Ralph H. Fr. M. E. 213 7th, Box 3345. Poughkeepsie, N. Y. Sweeney, Edwin J. Fr. For. 523 7th, Box 5389. Richmond Hill, N. Y. Sweet, Harold M. Fr. M. E. 112 8th. Spencer, N. C. Sweezy, H. L. Grad. For. 414 Chamberlain St. Locust Grove, Okla. Swett, James B., Jr. So. M. E. 107 A. Southern Pines, N. C. Swinney, Grover C., Jr. Fr. E. E. 59th. Draper, N. C. Tager, Sidney. Jr. Tex. Mfg. 2304 Clark Ave. Brooklyn, N. Y. Talley, Claude E. Jr. E. E. 102 Wat., Box 3002. Semora, N. C. Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253. Marshville, N. C. Tart, C. Vic. So. Ag. Ed. 228 C. Dunn, N. C. Tatte, Lawrence H. Fr. M. E. Cameron Park Apt. 3 Raleigh, N. C. Taylor, G. Stanley. Fr. Ag. Ed. 133 7th, Box 3401. Jackson, N. C. Taylor, G. Stanley. Fr. Ag. Ed. 133 7th, Box 3401. Jackson, N. C. Taylor, Harold G. So. Ag. 109 A. Seaboard, N. C. Taylor, Harold G. So. Ag. 109 A. Seaboard, N. C. Taylor, Lawrence H., Jr. Fr. Arch. E. 39th. Charlotte, N. C. Taylor, Lawrence H., Jr. Fr. For. 305 7th, Box 3371. Roanoke Rapids, N. C. Taylor, Lawrence H., Jr. Fr. For. 305 7th, Box 3371. Roanoke Rapids, N. C. Taylor, Lawrence H., Jr. Fr. For. 305 7th, Box 3371. Roanoke Rapids, N. C. Taylor, Roger G. Fr. M. E. 2515 Clark Ave. High Point, N. C. Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C. Taylor, Granville, Jr. Sr. M. E. 203 Wat., Box 3018. Hanes, N. C. Taylor, T. K. Sr. Tex. Mfg. 118 Wat., Box 3021. Asheville, N. C. Taylor, W. Granville, Jr. Sr. M. E. 203 Wat., Box 3021. Asheville, N. C. Taylor, W. Granville, Jr. Sr. M. E. 203 Swat., Box 3021. Asheville, N. C. Taylor, Dawrence H., Jr. Geol. E. 120 South, Box 3579. Slier City, N. C. Teague, Norwood Ir. Ind. Arts. 2714 Vanderbilt Ave. Raleigh, N. C. Teague, Norwood Ir. Ind. Arts. 2714 Vanderbilt Ave. Raleigh	Suther, John H., Ir.	Fr. M. E	204 8th	Concord, N. C.
Swam, B. Clayton         Jr. E. 210 6th, Box 3258         Cycle, N. C.           Swanker, Ralph H. Fr. M. E. 213 7th, Box 3345         Poughkeepsie, N. Y.           Sweeney, Edwin J. Fr. For. 323 7th, Box 3389         Richmond Hill, N. Y.           Sweet, Harold M. Fr. M. E. 112 8th. Spencer, N. C.         Seezy, H. Spencer, N. C.           Sweety, James B., Jr. So. M. E. 107 A. Southern Pines, N. C.         Southern Pines, N. C.           Swinney, Grover C., Jr. Fr. E. E. 59th. Draper, N. C.         Draper, N. C.           Tager, Sidney. Jr. Tex. Mfg. 2304 Clark Ave. Brooklyn, N. Y.         Brooklyn, N. Y.           Talley, Claude E. Jr. E. 102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic. So. Ag. Ed. 228 C. Dunn, N. C.         Dunn, N. C.           Tatum, R. L. Jr. Ch. E. 2708 Vanderbilt Ave. Raleigh, N. C.         Raleigh, N. C.           Taylor, G. Stanley. Fr. Ag. Ed. 133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G. So. Ag. 109 A. Seaboard, N. C.         Seaboard, N. C.           Taylor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C.         Taylor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C.           Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C.         Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C.           Taylor, Roger G. Fr. M. E. 203 Wat., Box 3018         Hanes, N. C.           T	Suttenfield, W. Harry, Jr.	Fr. Tex. Mgt.	1922 Hillsboro St	Statesville, N. C.
Swam, B. Clayton         Jr. E. 210 6th, Box 3258         Cycle, N. C.           Swanker, Ralph H. Fr. M. E. 213 7th, Box 3345         Poughkeepsie, N. Y.           Sweeney, Edwin J. Fr. For. 323 7th, Box 3389         Richmond Hill, N. Y.           Sweet, Harold M. Fr. M. E. 112 8th. Spencer, N. C.         Seezy, H. Spencer, N. C.           Sweety, James B., Jr. So. M. E. 107 A. Southern Pines, N. C.         Southern Pines, N. C.           Swinney, Grover C., Jr. Fr. E. E. 59th. Draper, N. C.         Draper, N. C.           Tager, Sidney. Jr. Tex. Mfg. 2304 Clark Ave. Brooklyn, N. Y.         Brooklyn, N. Y.           Talley, Claude E. Jr. E. 102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic. So. Ag. Ed. 228 C. Dunn, N. C.         Dunn, N. C.           Tatum, R. L. Jr. Ch. E. 2708 Vanderbilt Ave. Raleigh, N. C.         Raleigh, N. C.           Taylor, G. Stanley. Fr. Ag. Ed. 133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G. So. Ag. 109 A. Seaboard, N. C.         Seaboard, N. C.           Taylor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C.         Taylor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C.           Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C.         Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C.           Taylor, Roger G. Fr. M. E. 203 Wat., Box 3018         Hanes, N. C.           T	Sutton, David A	Sr. Ag. Ed	106 6th, Box 3242	Goldsboro, N. C.
Swam, B. Clayton         Jr. E. 210 6th, Box 3258         Cycle, N. C.           Swanker, Ralph H. Fr. M. E. 213 7th, Box 3345         Poughkeepsie, N. Y.           Sweeney, Edwin J. Fr. For. 323 7th, Box 3389         Richmond Hill, N. Y.           Sweet, Harold M. Fr. M. E. 112 8th. Spencer, N. C.         Seezy, H. Spencer, N. C.           Sweety, James B., Jr. So. M. E. 107 A. Southern Pines, N. C.         Southern Pines, N. C.           Swinney, Grover C., Jr. Fr. E. E. 59th. Draper, N. C.         Draper, N. C.           Tager, Sidney. Jr. Tex. Mfg. 2304 Clark Ave. Brooklyn, N. Y.         Brooklyn, N. Y.           Talley, Claude E. Jr. E. 102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W. Fr. Ag. Ed. 205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic. So. Ag. Ed. 228 C. Dunn, N. C.         Dunn, N. C.           Tatum, R. L. Jr. Ch. E. 2708 Vanderbilt Ave. Raleigh, N. C.         Raleigh, N. C.           Taylor, G. Stanley. Fr. Ag. Ed. 133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G. So. Ag. 109 A. Seaboard, N. C.         Seaboard, N. C.           Taylor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C.         Taylor, James R., Jr. Fr. Arch. E. 39th. Charlotte, N. C.           Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C.         Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C.           Taylor, Roger G. Fr. M. E. 203 Wat., Box 3018         Hanes, N. C.           T	Sutton, Wallace M	So. Tex. W. & D	5371/2 E. Jones St	Rocky Mount, N. C.
Sweet, Harold M.         Fr. M. E.         112 8th.         Spencer, N. C.           Sweezy, H. L.         Grad. For.         414 Chamberlain St.         Locust Grove, Okla.           Swett, James B., Jr.         So. M. E.         107 A.         Southern Pines, N. C.           Swinney, Grover C., Jr.         Fr. E. E.         5 9th.         Draper, N. C.           Tager, Sidney.         Jr. Tex. Mfg.         2304 Clark Ave.         Brooklyn, N. Y.           Talley, Claude E.         Jr. E. E.         102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W.         Fr. Ag. Ed.         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic.         So. Ag. Ed.         228 C.         Dunn, N. C.           Tate, Lawrence H.         Fr. M. E.         Cameron Park Apt.         3 Raleigh, N. C.           Tatum, R. L.         Jr. Ch. E.         2708 Vanderbilt Ave.         Raleigh, N. C.           Taylor, G. Stanley.         Fr. Ag. Ed.         133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, James R., Jr.         Fr. Arch. E.         3 9th.         Charlotte, N. C. <td< td=""><td>Swaim R Clayton</td><td>  +   +  </td><td>410 6th, Box 3438</td><td>Cycle, N. C.</td></td<>	Swaim R Clayton	+   +	410 6th, Box 3438	Cycle, N. C.
Sweet, Harold M.         Fr. M. E.         112 8th.         Spencer, N. C.           Sweezy, H. L.         Grad. For.         414 Chamberlain St.         Locust Grove, Okla.           Swett, James B., Jr.         So. M. E.         107 A.         Southern Pines, N. C.           Swinney, Grover C., Jr.         Fr. E. E.         5 9th.         Draper, N. C.           Tager, Sidney.         Jr. Tex. Mfg.         2304 Clark Ave.         Brooklyn, N. Y.           Talley, Claude E.         Jr. E. E.         102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W.         Fr. Ag. Ed.         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic.         So. Ag. Ed.         228 C.         Dunn, N. C.           Tate, Lawrence H.         Fr. M. E.         Cameron Park Apt.         3 Raleigh, N. C.           Tatum, R. L.         Jr. Ch. E.         2708 Vanderbilt Ave.         Raleigh, N. C.           Taylor, G. Stanley.         Fr. Ag. Ed.         133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, James R., Jr.         Fr. Arch. E.         3 9th.         Charlotte, N. C. <td< td=""><td>Swanker, Ralph H</td><td>Fr. M. E</td><td>213 7th, Box 3345</td><td>Poughkeepsie, N. Y.</td></td<>	Swanker, Ralph H	Fr. M. E	213 7th, Box 3345	Poughkeepsie, N. Y.
Sweezy, H. L.         Grad. For.         414 Chamberlain St.         Locust Grove, Okla.           Swett, James B., Jr.         So. M. E.         107 A         Southern Pines, N. C.           Swinney, Grover C., Jr.         Fr. E. E.         5 9th         Draper, N. C.           Tager, Sidney         Jr. Tex.         Mfg         2304 Clark Ave         Brooklyn, N. Y.           Talley, Claude E.         Jr. E. E.         102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W.         Fr. Ag. Ed.         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic.         So. Ag. Ed.         228 C         Dunn, N. C.           Tate, Lawrence H.         Fr. M. E.         Cameron Park Apt.         3 Raleigh, N. C.           Tatum, R. L.         Jr. Ch. E.         2708 Vanderbilt Ave         Raleigh, N. C.           Taylor, G. Stanley         Fr. Ag. Ed.         133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G.         So. Ag.         109 A         Seaboard, N. C.           Taylor, H. M., Jr.         Sr. M. E.         2513 Clark Ave         High Point, N. C.           Taylor, James R., Jr.         Fr. Arch. E.         5 9th         Charlotte, N. C.           Taylor, Lawrence H., Jr. Fr. For.         305 7th, Box 3371         Roanoke Rapids, N. C.	Sweeney, Edwin J.	tr. tor		Kichmond Hill, N. 1.
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Swinney, Grover C., Jr.         Fr. E. E.         5 9th.         Draper, N. C.           Tager, Sidney         Jr. Tex. Mfg.         2304 Clark Ave         Brooklyn, N. Y.           Talley, Claude E.         Jr. E. E.         102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W         Fr. Ag. Ed.         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic         So. Ag. Ed.         228 C.         Dunn, N. C.           Tatte, Lawrence H.         Fr. M. E.         Cameron Park Apt. 3         Raleigh, N. C.           Tatum, R. L.         Jr. Ch. E.         2708 Vanderbilt Ave.         Raleigh, N. C.           Taylor, G. Stanley.         Fr. Ag. Ed.         133 7th, Box 5401         Jackson, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, H. M., Jr.         Sr. M. E.         2313 Clark Ave.         High Point, N. C.           Taylor, James R., Jr.         Fr. For.         505 7th, Box 3371         Roanoke Rapids, N. C.           Taylor, Lawrence H., Jr.         Fr. For.         505 7th, Box 3371         Roanoke Rapids, N. C.           Taylor, Mark H.         Grad. W. C. & M. Brooks Ave.         High Point, N. C.	Sweezy, H. L.	Grad. ror	107 A	Southern Pines N C
Tager, Sidney         Jr. Tex. Mfg         2304 Clark Ave         Brooklyn, N. Y.           Talley, Claude E         Jr. E. E         102 Wat., Box 3002         Semora, N. C.           Tarlton, C. W         Fr. Ag. Ed         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic         So. Ag. Ed         228 C         Dunn, N. C.           Tate, Lawrence H         Fr. M. E         Cameron Park Apt. 3         Raleigh, N. C.           Tatum, R. L         Jr. Ch. E         2708 Vanderbilt Ave         Raleigh, N. C.           Taylor, G. Stanley         Fr. Ag. Ed         133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G         So. Ag         109 A         Seaboard, N. C.           Taylor, Harold G         So. Ag         109 A         Seaboard, N. C.           Taylor, James R., Jr.         Fr. Arch. E         39th         Charlotte, N. C.           Taylor, James R., Jr.         Fr. Arch. E         39th         Roanoke Rapids, N. C.           Taylor, Mark H         Grad. W. C. & M. Brooks Ave         High Point, N. C.           Taylor, Roger G         Fr. M. E         124 8th         High Point, N. C.           Taylor, T. K         Sr. Tex. Mfg         118 Wat., Box 5018         Hanes, N. C.           Taylor, W. Granville, Jr. <td< td=""><td>Swett, James D., Ji</td><td>F- F F</td><td>5 0-h</td><td>Draner V C</td></td<>	Swett, James D., Ji	F- F F	5 0-h	Draner V C
Talley, Claude E.         Jr. E. E.         102 Watt, Box 3002         Semora, N. C.           Tarlton, C. W.         Fr. Ag. Ed.         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic.         So. Ag. Ed.         228 C.         Dunn, N. C.           Tate, Lawrence H.         Fr. M. E.         Cameron Park Apt. 3         Raleigh, N. C.           Tatum, R. L.         Jr. Ch. E.         2708 Vanderbilt Ave.         Raleigh, N. C.           Taylor, G. Stanley.         Fr. Ag. Ed.         133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, James R., Jr.         Fr. Arch. E.         39 th         Charlotte, N. C.           Taylor, Lawrence H., Jr.         Fr. M	Swinney, Grover C., Jr	r.l. L. L		Linibiapei, 14. C.
Talley, Claude E.         Jr. E. E.         102 Watt, Box 3002         Semora, N. C.           Tarlton, C. W.         Fr. Ag. Ed.         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic.         So. Ag. Ed.         228 C.         Dunn, N. C.           Tate, Lawrence H.         Fr. M. E.         Cameron Park Apt. 3         Raleigh, N. C.           Tatum, R. L.         Jr. Ch. E.         2708 Vanderbilt Ave.         Raleigh, N. C.           Taylor, G. Stanley.         Fr. Ag. Ed.         133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, James R., Jr.         Fr. Arch. E.         39 th         Charlotte, N. C.           Taylor, Lawrence H., Jr.         Fr. M	Tager Sidney	Ir Tex Mig	2304 Clark Ave.	Brooklyn, N. Y.
Tarlton, C. W.         Fr. Ag. Ed.         205 6th, Box 3253         Marshville, N. C.           Tart, C. Vic.         So. Ag. Ed.         228 C.         Dunn, N. C.           Tate, Lawrence H.         Fr. M. E.         Cameron Park Apt. 3         Raleigh, N. C.           Tatum, R. L.         Jr. Ch. E.         2708 Vanderbilt Ave.         Raleigh, N. C.           Taylor, G. Stanley.         Fr. Ag. Ed.         133 7th, Box 3401         Jackson, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, Harold G.         So. Ag.         109 A.         Seaboard, N. C.           Taylor, H. M., Jr.         Sr. M. E.         2513 Clark Ave.         High Point, N. C.           Taylor, James R., Jr.         Fr. For.         305 7th, Box 3371         Roanoke Rapids, N. C.           Taylor, Mark H.         Grad. W. C. & M. Brooks Ave.         High Point, N. C.           Taylor, Roger G.         Fr. M. E.         124 8th.         High Point, N. C.           Taylor, T. K. <td< td=""><td>Taller Claude F</td><td>I- F F</td><td>102 War Box 3007</td><td>Semora \ (</td></td<>	Taller Claude F	I- F F	102 War Box 3007	Semora \ (
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Taylor, Mark H. Grad. W. C. & M. Brooks Ave. High Point, N. C. Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C. Taylor, T. K. Sr. Tex. Mig. 118 Wat., Box 3018 Hanes, N. C. Taylor, W. Granville, Jr. Sr. M. E. 203 Wat., Box 3021 Asheville, N. C. Teague, Kefton H. Jr. Geol. E. 120 South, Box 3520 Siler City, N. C. Teague, Norwood Jr. Ind. Arts 2714 Vanderbilt Ave. Raleigh, N. C. Teal, Jennings B. Fr. M. E. 16 8th McFarlan, N. C. Tedder, John W. Fr. Ch. E. 204 10th Ellenboro, N. C. Temple, Grover P. Fr. Ag. 313 7th, Box 3379 Bunn Level, N. C.	laylor, James K., Jr	fr. Arch. L	) 9th	Poppoke Papide N C
Taylor, Roger G. Fr. M. E. 124 8th. High Point, N. C. Taylor, T. K. Sr. Tex. Mfg. 118 Wat., Box 5018 Hanes, N. C. Taylor, W. Granville, Jr. Sr. M. E. 203 Wat., Box 3021. Asheville, N. C. Teague, Kefton H. Jr. Geol. E. 120 South, Box 3520. Siler City, N. C. Teague, Norwood. Jr. Ind. Arts. 2714 Vanderbilt Ave. Raleigh, N. C. Teal, Jennings B. Fr. M. E. 16 8th. McFarlan, N. C. Tedder, John W. Fr. Ch. E. 204 10th. Ellenboro, N. C. Temple, Grover P. Fr. Ag. 313 7th, Box 3379. Bunn Level, N. C.	Taylor, Lawrence H., Jr.		Reads Ave	High Point N C
Taylor, T. K. Sr. Tex. Mfg. 118 Wat., Box 5018 Hanes, N. C. Taylor, W. Granville, Jr. Sr. M. E. 203 Wat., Box 5021 Asheville, N. C. Teague, Kefton H. Jr. Geol. E. 120 South, Box 3520 Siler City, N. C. Teague, Norwood Jr. Ind. Arts 2714 Vanderbilt Ave. Raleigh, N. C. Teal, Jennings B. Fr. M. E. 16 8th McFarlan, N. C. Tedder, John W. Fr. Ch. E. 204 10th Ellenboro, N. C. Temple, Grover P. Fr. Ag. 313 7th, Box 3379 Bunn Level, N. C.	Taylor Roser G	Fr M F	124 Sth	High Point, N. C.
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Teague, NorwoodJr. Ind. Arts	Teamie, Kefton H.	It. Geol. E.	120 South, Box 5520	Siler City, N. C.
Teal, Jennings B. Fr. M. E. 16 8th McFarlan, N. C. Tedder, John W. Fr. Ch. E. 204 10th Ellenboro, N. C. Temple, Grover P. Fr. Ag. 313 7th, Box 3379 Bunn Level, N. C.	Teague, Norwood	Ir. Ind. Arts	2714 Vanderbilt Ave	Raleigh, N. C.
Tedder, John W. Fr. Ch. E. 204 10th Ellenboro, N. C. Temple, Grover P. Fr. Ag. 313 7th, Box 3379 Bunn Level, N. C.	Teal, Jennings B.	Fr. M. E	16 Sth	McFarlan, N. C.
Temple, Grover P. Fr. Ag. 313 7th, Box 3379 Bunn Level, N. C.	Tedder, John W.	Fr. Ch. E	204 10th	Ellenboro, N. C.
Terry, Herman L. Fr. For. 112 8th Spencer, N. C.	Temple, Grover P.	Fr. Ag	313 7th, Box 3379	Bunn Level, N. C.
	Terry, Herman L.	r. For.	112 8th	Spencer, N. C.

Teny Depth   Fr. Ag. Ed.   22 South, Box 3618   Godwin, N. C. Shankon, C. P., Tanu, Harold R.   Fr. Tex. Mfg.   Withdrew Sept. 12   Brighton Beach, N. Y. Grad, C. E.   322 New Bern Ave.   Rocky Mount, N. C. Theypen, J. W.   Jr.   Fr. Tex. Mfg.   333 7th, Box 3359   Scranton, P. R.   Thomas, Henry C.   Sr. Ch. E.   106 South, Box 3369   Durham, N. C. Thomas, Henry E.   Jr. Cer. E.   217 South, Box 3369   Durham, N. C. Thomas, Henry E.   Jr. Cer. E.   218 South, Box 3369   Durham, N. C. Thomas, S. LeRoy, Jr.   Jr. Cer. E.   218 South, Box 3364   Oakborn, N. C. Thomas, S. LeRoy, Jr.   Jr. Cer. E.   Mail: 518 Professional Bidg. Westfield, N. J. Thomason, James W. Fr. M. E.   301 7th, Box 3367   Roandock Rapids, N. C. Thompson, J. B.   Jr. Ind. Arts.   205 A, Box 5382   Mt. Holly, N. C. Thompson, J. B.   Jr. Ind. Arts.   205 A, Box 5382   Mt. Holly, N. C. Thompson, J. Wayne.   So. Ch. E.   1614 Scales St.   Raleigh, N. C. Thompson, Oswald B. Fr. Ag.   217 7th, Box 3367   Goldsboro, N. C. Thompson, Oswald B. Fr. Ag.   217 7th, Box 3367   Goldsboro, N. C. Thompson, Oswald B. Fr. Ag.   217 7th, Box 3362   Goldsboro, N. C. Thompson, Wallace F. Jr. Ag. Ed.   122 C.   Elizabeth City, N. C. Thompson, Wallace F. Jr. Ag. Ed.   122 C.   Elizabeth City, N. C. Thompton, Wallace F. Jr. Ag. Ed.   122 C.   Elizabeth City, N. C. Thrailkill, Wm. J. Fr. Ag. Ed.   220 A.   Apex, N. C.   Thrailkill, Wm. J. Fr. Ag. Ed.   230 A.   Apex, N. C.   Thrailkill, Wm. J. Fr. Ag. Ed.   230 A.   Apex, N. C.   Candor, N. C.   Thurmond, Roy C. Fr. Ind. Arts.   306 8th.   Rocky Mount, N. C.   Rocky Mount, N. C.   Thurmond, Roy C. Fr. Ind. Arts.   306 8th.   Rocky Mount, N. C.   Thurmond, Roy C. Fr. Ind. Arts.   306 8th.   Rocky Mount, N. C.   Thurmond, Roy C. Fr. Ind. Arts.   306 8th.   Rocky Mount, N. C.   Thurmond, Roy C. Fr. Ind. Arts.   306 8th.   Rocky Mount, N. C.   Thurmond, Roy C. Fr. Ind. Arts.   307 8th.   30	Name	Classification	School Address	Home Address
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Thomas, Al W., Ir.	Thau, Harold	.Jr. Tex. Mfg	Withdrew Sept. 12	Brighton Beach, N. Y.
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Thomason, James W. Fr. M. E. 301 7th, Box 3367   Roanoke Kapids, N. C. Thomason, W. Aldine, Jr. Jr. Tex. Mfg. 103 Chamberlain St. Charlotte, N. C. Thompson, J. B. Jr. Ind. Arts 205 A, Box 5282   Mt. Holly, N. C. Thompson, J. Wayne So. Ch. E. 1614 Scales St. Raleigh, N. C. Thompson, J. Wayne So. Ch. E. 1614 Scales St. Raleigh, N. C. Thompson, J. Wayne So. Ch. E. 121 7th, Box 3329   Charlotte, N. C. Thompson, Oswald B. Fr. Ag. 121 7th, Box 3321   Goldsboro, N. C. Thompson, Wm. B., Jr. So. Ch. E. 21 Enterprise St. Goldsboro, N. C. Thompson, Wm. B., Jr. So. Ch. E. 21 Enterprise St. Goldsboro, N. C. Thompson, Wm. B., Jr. Ag. Ed. 122 C. Elizabeth City, N. C. Thompson, Wallace F. Jr. Ag. Ed. 122 C. Elizabeth City, N. C. Thompson, Wallace F. Jr. Ag. Ed. 122 C. Elizabeth City, N. C. Thompson, Wallace F. Jr. Ag. Ed. 122 C. Elizabeth City, N. C. Thompson, Wallace F. Jr. Ag. Ed. 122 C. Elizabeth City, N. C. Thompson, Wallace F. Jr. Ag. Ed. 230 A. Apex, N. C. Thompson, Manager L., Jr. So. Cer. E. 140 1911, Box 3740   Asheville, N. C. Thrallkill, Wm. Jr. Fr. Ag. Ed. 230 A. Apex, N. C. Thrallkill, Wm. Jr. So. Cer. E. 140 1911, Box 3740   Asheville, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Tilley, T. Marshall. So. E. E. 547 E. Hargett St. Bahama, N. C. Tilley, T. Marshall. So. E. E. 547 E. Hargett St. Bahama, N. C. Tilley, T. Marshall. So. E. E. 547 E. Hargett St. Bahama, N. C. Tilley, T. Marshall. So. Ag. 302 South, Box 3516   Castel Hayne, N. C. Tipton, W. J. So. Ag. 101 Wadesboro, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wadesboro, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wadesboro, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wadesboro, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wadesboro, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wadesboro, N. C. Todd, F. A. Fr. Ag. Ed. 230 9th. Box 3512   Montreal, Canada Tommola, Urho. Jr. M. E. 219 A. Wadesboro, N. C. Colletts wile, N. C. Todd, F. A. Fr. Ag. Ed. 230 5th, Box 3240   Montreal, Canada Tommola, Urho. Jr.	Thomas, S. LeRoy, Ir.	Ir. Cer. E.	Mail: 518 Professional Bldg.	_Westfield, N. I
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Thompson, J. Wayne   So. Ch. E.   1614 Scales St.   Raleigh, N. C.   Thompson, J. Wayne   So. Ch. E.   1614 Scales St.   Raleigh, N. C.   Thompson, J. Wayne   So. Ch. E.   1614 Scales St.   Raleigh, N. C.   Thompson, Oswald B.   Fr. Ag.   121 7th, Box 3329   Goldsboro, N. C.   Thompson, Wm. B., Jr.   So. Ch. E.   21 Enterprise St.   Goldsboro, N. C.   Thompson, Wallace F.   Jr. Ag. Ed.   122 C.   Elizabeth City, N. C.   Thompson, Wallace F.   Jr. Ag. Ed.   122 C.   Elizabeth City, N. C.   Thompson, Wallace F.   Jr. Ag. Ed.   122 C.   Spencer, N. C.   Thompson, Wallace F.   Jr. Ag. Ed.   230 A.   Apex, N. C.   Thornton, James L., Jr.   So. Cer. E.   140 1911, Box 3740   Asbeville, N. C.   Threlkeld, Polk L., Jr.   So. Cer. E.   140 1911, Box 3740   Asbeville, N. C.   Thurmond, Roy C.   Fr. Ind. Arts.   306 Sth.   Rocky Mount, N. C.   Thurner, J. T.   So. For.   109 C.   Greensboro, N. C.   Tilley, T. Marshall.   So. E. E.   547 E. Hargett St.   Bahama, N. C.   Tillman, J. E.   Sr. Tex. C. & D.   111 Wat, Box 3011.   Wadesboro, N. C.   Tinga, Jacob.   So. Ag.   302 South, Box 3566.   Castle Hayne, N. C.   Todd, Edwin R.   Jr. Cer. E.   2513 Clark Ave.   Charlotte, N. C.   Todd, Edwin R.   Jr. Cer. E.   2513 Clark Ave.   Charlotte, N. C.   Todd, Edwin R.   Jr. Cer. E.   213 9th.   Wendell, N. C.   Tollmie, John A.   Fr. Tex. Mfg.   112 7th, Box 3312.   Montrate, Canada   Tommola, Urho.   Jr. M. E.   229 A   Brooklyn, N. Y.   Tovey, Kerth D.   Grad. Soils.   6 Enterprise St.   Pocatello, Idaho   Towers, R. E.   Sr. Tex. Mfg.   112 7th, Box 3561.   Montrate, Canada   Townsend, C. Gordon Sr. Ag. Ed.   South, Box 3515.   Concord, N. C.   Treventh, Louis B.   So. Ag. Ed.   312 Wat, Box 3312.   Concord, N. C.   Treventh, Don F.   Fr. E.   205 Sth, Box 3215.   Concord, N. C.   Townsend, C. Gordon Sr. Ag. Ed.   South, Box 3515.   Wollston, Mass.   Trevathan, Louis B.   So. Ag. Ed.   312 Wat, Box 3048.   Forest City, N. C.   Traylor, Don F.   Sr. For.   302 Horne St.   Raleigh, N. C.   Truster, H. Flowe.   Fr. E.   205 S	Thomason, W. Aldine, Ir.	Ir. Tex. Mfg.	103 Chamberlain St.	Charlotte, N. C.
Thompson, Oswald B	Thompson, J. B	Jr. Ind. Arts	205 A, Box 5282	Mt. Holly, N. C.
Lawrence C., Jr.   Fr. For.   129 7th, Box 3329   Charlotte, N. C. Thompson, Oswald B.   Fr. Ag.   121 7th, Box 3321   Goldsboro, N. C. Thompson, Wm. B., Jr.   So. Ch. E.   21 Enterprise St.   Goldsboro, N. C. Thompson, Wallace F.   Jr. Ag.   Ed.   122 C   Elizabeth City, N. C. Thornburg, W. Hugh.   Jr. Ag.   102 A   Candor, N. C.   Thornburg, W. Hugh.   Jr. Ag.   102 A   Candor, N. C.   Thornburg, W. Hugh.   Jr. Ag.   230 A   Apex, N. C.   Thrailkill, Wm.   Jr. Ag.   Ed.   230 A   Apex, N. C.   Thrailkill, Wm.   Jr. Ag.   Ed.   230 A   Apex, N. C.   Thrailkill, Wm.   Jr. Ag.   Ed.   230 A   Apex, N. C.   Thurmond, Roy C.   Fr. Ind. Arts   306 8th.   Rocky Mount, N. C.   Thurmond, Roy C.   Fr. Ind. Arts   306 8th.   Rocky Mount, N. C.   Thurmond, Roy C.   Fr. Ind. Arts   306 8th.   Rocky Mount, N. C.   Tilley, T. Marshall   So. E. E.   547 E. Hargett St.   Bhama, N. C.   Tilley, T. Marshall   So. E. E.   547 E. Hargett St.   Bhama, N. C.   Tillga, Jacob   So. Ag.   302 South, Box 3566   Castle Hayne, N. C.   Tipton, W. J.   So. Ag.   302 South, Box 3566   Castle Hayne, N. C.   Todd, Edwin R.   Jr. Cer. E.   2513 Clark Ave.   Charlotte, N. C.   Todd, Edwin R.   Jr. Cer. E.   2513 Clark Ave.   Charlotte, N. C.   Todd, Edwin R.   Jr. Cer. E.   2513 Clark Ave.   Charlotte, N. C.   Tolbert, J. Warren   So. E. E.   140 1911, Box 3740   Collectsville, N. C.   Tolmie, John A.   Fr. Tex. Mfg   112 7th, Box 3312   Montreal, Canada   Tommola, Urho.   Jr. M. E.   229 A   Brooklyn, N. Y.   Tovey, Keith D.   Grad. Solls   6 Enterprise St.   Pocatello, Idaho   Towers, R. E.   Sr. Tex. Mfg   112 7th, Box 3312   Montreal, Canada   Tommola, Urho.   Jr. M. E.   229 A   Brooklyn, N. Y.   Towers, Keith D.   Grad. Solls   6 Enterprise St.   Pocatello, Idaho   Towers, R. E.   Sr. Tex. Mfg   1702 Hillsboro St.   Box 5542   Rome, Ga.   Towers, Eugene S., Jr. Jr. Cer. E.   203 5th, Box 3315   Concord, N. C.   Traylor, Don F.   Sr. For.   302 9th mes St.   Sollation, Mass.   Trevathan, Louis B.   So. Ag. E.   103 6th, Box 3355   Montre	Thompson, J. Wayne	So. Ch. E	1614 Scales St	Raleigh, N. C.
Thompson, Wallace F Jr. Ag. Ed. 122 C Elizabeth City, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Candor, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Candor, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Candor, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Apex, N. C. Thornburg, W. Hugh. Jr. Ag. 230 A Apex, N. C. Thornburg, W. Hugh. Jr. St. Ch. E. 2406 Hillsboro St. Spencer, N. C. Thrills, Jr. So. Cer. E. 140 1911, Box 3740. Asheville, N. C. Thrills, Jr. Asheville, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Greensboro, N. C. Thurmord, Roy C. Fr. Ind. Arts. 307 8th. Rocky Mount, N. C. Thurmord, Roy C. Charlotte, N. C. Tolohert, J. Warren. So. E. E. 140 1911, Box 3740. Collectivelle, N. C. Tolohert, J. Warren. So. E. E. 140 1911, Box 3740. Collectivelle, N. C. Tolmie, John A. Fr. Tex. Mfg. 112 7th, Box 3312. Montreal, Canada Tommola, Urho. Jr. M. E. 229 A. Brooklyn, N. Y. Tovey, Keith D. Grad. Soils. 6 Enterprise St. Pocatello, Idaho Towers, R. E. Sr. Tex. Mgg. 1170 Hillsboro St., Box 5542. Rome, Ga. Rowery, Eugene S., Jr. Jr. Cer. E. 203 5th, Box 3215. Concord, N. C. Traylor, Don F. Sr. For. 302 Horne St. Rose, Box Montreal, Canada Townsend, C. Gordon. Sr. Ag. Ed. 8 South, Box 3604. Hamer, S. C. Townsend Elbert T. Fr. E. 203 5th, Box 3215. Concord, N. C. Traylor, Don F. Sr. For. 302 Horne St. Rose, Box Malegiph, N. C. Traylor, Don F. Sr. For. 302 Horne St. Rose, Box Male	Thompson,	B B	440 T. I. D. 4440	CI 1 N C
Thompson, Wallace F Jr. Ag. Ed. 122 C Elizabeth City, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Candor, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Candor, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Candor, N. C. Thornburg, W. Hugh. Jr. Ag. 102 A Apex, N. C. Thornburg, W. Hugh. Jr. Ag. 230 A Apex, N. C. Thornburg, W. Hugh. Jr. St. Ch. E. 2406 Hillsboro St. Spencer, N. C. Thrills, Jr. So. Cer. E. 140 1911, Box 3740. Asheville, N. C. Thrills, Jr. Asheville, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmord, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Greensboro, N. C. Thurmord, Roy C. Fr. Ind. Arts. 307 8th. Rocky Mount, N. C. Thurmord, Roy C. Charlotte, N. C. Tolohert, J. Warren. So. E. E. 140 1911, Box 3740. Collectivelle, N. C. Tolohert, J. Warren. So. E. E. 140 1911, Box 3740. Collectivelle, N. C. Tolmie, John A. Fr. Tex. Mfg. 112 7th, Box 3312. Montreal, Canada Tommola, Urho. Jr. M. E. 229 A. Brooklyn, N. Y. Tovey, Keith D. Grad. Soils. 6 Enterprise St. Pocatello, Idaho Towers, R. E. Sr. Tex. Mgg. 1170 Hillsboro St., Box 5542. Rome, Ga. Rowery, Eugene S., Jr. Jr. Cer. E. 203 5th, Box 3215. Concord, N. C. Traylor, Don F. Sr. For. 302 Horne St. Rose, Box Montreal, Canada Townsend, C. Gordon. Sr. Ag. Ed. 8 South, Box 3604. Hamer, S. C. Townsend Elbert T. Fr. E. 203 5th, Box 3215. Concord, N. C. Traylor, Don F. Sr. For. 302 Horne St. Rose, Box Malegiph, N. C. Traylor, Don F. Sr. For. 302 Horne St. Rose, Box Male	Lawrence C., Jr	Fr. For	129 7th, Box 3329	Charlotte, N. C.
Thompson, Wallace F.   Jr. Ag.   122 C	Thompson, Oswald B	Ag	121 /th, Box 3321	Goldsboro, N. C.
Thornburg, W. Hugh. Jr. Ag. 102 A Candor, N. C. Thornburg, James L., Jr. Sr. Ch. E. 2406 Hillsboro St. Spencer, N. C. Thrailkill, Wm. J. Fr. Ag. Ed. 230 A Apex, N. C. Thrailkill, Wm. J. Fr. Ag. Ed. 230 A Apex, N. C. Thrailkill, Wm. J. Fr. Ag. Ed. 230 A Apex, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 Sth. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 Sth. Rocky Mount, N. C. Thurmond, Roy C. Fr. Ind. Arts. 306 Sth. Rocky Mount, N. C. Thurmond, Roy C. Fr. Largett St. Bahama, N. C. Tilley, T. Marshall. So. E. E. 547 E. Hargett St. Bahama, N. C. Tilley, T. Marshall. So. E. E. 547 E. Hargett St. Bahama, N. C. Tillman, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011. Wadesboro, N. C. Tipton, W. J. So. Ag. 302 South, Box 3566. Castle Hayne, N. C. Tipton, W. J. So. Ag. Ch. 108 Horne St. Forbes, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Toddi, Peter V., Jr. Fr. M. E. 111 Sth. Charlotte, N. C. Tolbert, J. Warren. So. E. E. 140 1911, Box 3740. Collettsville, N. C. Tolbert, J. Warren. So. E. E. 140 1911, Box 3740. Montreal, Canada Tommola, Urho Jr. M. E. 229 A Brooklyn, N. Y. Tovey, Keith D. Grad. Soils. 6 Enterprise St. Pocatello, Idaho Towers, R. E. Sr. Tex. Mgt. 1702 Hillsboro St., Box 5542. Rome, Ga. Towers, R. E. Sr. Tex. Mgt. 1702 Hillsboro St., Box 5542. Rome, Ga. Towery, Eugene S., Jr. Jr. Cer. E. 203 5th, Box 3604. Hamer, S. C. Traylor, Don F. Sr. For. 302 Horne St. Raleigh, N. C. Traylor, Don F. Sr. For. 302 Horne St. Raleigh, N. C. Trescott, Waldo. So. Tex. Mfg. 219 South, Box 3551. Wollaston, Mass. Trevathan, Louis B. So. Ag. Ed. 8 South, Box 3551. Wollaston, Mass. Troute, Guye W. So. Ag. Ed. 103 6th, Box 3315. Holoson, N. C. Trevethan, Louis B. So. Ag. Ed. 115 7th, Box 3314. Hendersonville, N. C. Troutman, J. M., Jr. Fr. Ag. Infirmary. Statesville, N. C. Troutman, J. M., Jr. Fr. Ag. Infirmary. Statesville, N. C. Trustra, A. Crawford So. M. E. 2004 Hillsboro St. Hendersonville, N. C. Turstall, Shelton. Fr. Ag. 114 7th, Box 3316. Hendersonville, N. C.	Thompson, Wm. B., Jr.	50. Ch. E	21 Enterprise St	Elizabeth City N C
Thornton, James L., Jr. Sr. Ch. E.	Thompson, Wallace F	Jr. Ag. Ed	102 A	Candor N C
Thrailkill, Wm. J. Fr. Ag. Ed. 230 A	Thornton James I Ir	Sr Ch F	2406 Hillshoro St	Spencer N C
Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Spr. 1.09 C. Greensboro, N. C. Tilley, T. Marshall. So. E. E. 547 E. Hargett St. Bahama, N. C. Tillman, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011. Wadesboro, N. C. Tillman, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011. Wadesboro, N. C. Tillman, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011. Wadesboro, N. C. Tillman, J. E. So. Ag. Mg. 302 South, Box 3566. Castle Hayne, N. C. Tipton, W. J. So. Ag. Ch. 108 Horne St. Forbes, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Todfoli, Peter V., Jr. Fr. M. E. 111 8th. Charlotte, N. C. Tollmie, John A. Fr. Tex. Mfg. 112 7th, Box 3740. Collettsville, N. C. Tollmie, John A. Fr. Tex. Mfg. 112 7th, Box 3312. Montreal, Canada Tommola, Urho. Jr. M. E. 229 A. Brooklyn, N. Y. Tovey, Keith D. Grad. Soils. 6 Enterprise St. Pocatello, Idaho Towers, R. E. Sr. Tex. Mgt. 1702 Hillsboro St., Box 5542. Rome, Ga. Towery, Eugene S., Jr. Jr. Cer. E. 203 5th, Box 3215. Concord, N. C. Townsend, C. Gordon Sr. Ag. Ed. & South, Box 3604. Hamer, S. C. Traylor, Don F. Sr. For. 302 9th St. Pauls, N. C. Trescott, Waldo. So. Tex. Mfg. 219 South, Box 3551. Wollaston, Mass. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3239. Dobson, N. C. Trescott, Waldo. So. Tex. Mfg. 219 South, Box 3551. Wollaston, Mass. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3239. Dobson, N. C. Troutman, J. M., Jr. Fr. F. E. 230 8th. Morristown, Tenn. Troute, Guye W. So. Ag. Ed. 312 Wat., Box 3015. Elon College, N. C. Troutman, J. M., Jr. Fr. Ag. Infirmary. Statesville, N. C. Trusker, R. T. Fr. Ind. Arts. 115 7th, Box 3315. Elon College, N. C. Trustel, John R. So. M. E. 2104 Hillsboro St. Hendersonville, N. C. Trustall, Thos. H. Fr. Ag. 1167 7th, Box 3314. Hester, N. C. Turner, D. Wight L. Jr. Tex. C. & D. 14 South, Box 3610. Greensboro, N. C. Turner, P. Pickett, Jr. So. Cer. E. 307 A. Greensboro, N. C. Turner, George H. So. Ch. E. 407 S. Boylan Ave. Chinton, N. C. Turner, P. Pickett, Jr. So. Cer. E. 307 A.	Thrailkill Wm I	Fr Ag Fd	230 A	Apex. N. C.
Thurmond, Roy C. Fr. Ind. Arts. 306 8th. Rocky Mount, N. C. Thurmond, Roy C. Spr. 1.09 C. Greensboro, N. C. Tilley, T. Marshall. So. E. E. 547 E. Hargett St. Bahama, N. C. Tillman, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011. Wadesboro, N. C. Tillman, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011. Wadesboro, N. C. Tillman, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011. Wadesboro, N. C. Tillman, J. E. So. Ag. Mg. 302 South, Box 3566. Castle Hayne, N. C. Tipton, W. J. So. Ag. Ch. 108 Horne St. Forbes, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Todfoli, Peter V., Jr. Fr. M. E. 111 8th. Charlotte, N. C. Tollmie, John A. Fr. Tex. Mfg. 112 7th, Box 3740. Collettsville, N. C. Tollmie, John A. Fr. Tex. Mfg. 112 7th, Box 3312. Montreal, Canada Tommola, Urho. Jr. M. E. 229 A. Brooklyn, N. Y. Tovey, Keith D. Grad. Soils. 6 Enterprise St. Pocatello, Idaho Towers, R. E. Sr. Tex. Mgt. 1702 Hillsboro St., Box 5542. Rome, Ga. Towery, Eugene S., Jr. Jr. Cer. E. 203 5th, Box 3215. Concord, N. C. Townsend, C. Gordon Sr. Ag. Ed. & South, Box 3604. Hamer, S. C. Traylor, Don F. Sr. For. 302 9th St. Pauls, N. C. Trescott, Waldo. So. Tex. Mfg. 219 South, Box 3551. Wollaston, Mass. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3239. Dobson, N. C. Trescott, Waldo. So. Tex. Mfg. 219 South, Box 3551. Wollaston, Mass. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3239. Dobson, N. C. Troutman, J. M., Jr. Fr. F. E. 230 8th. Morristown, Tenn. Troute, Guye W. So. Ag. Ed. 312 Wat., Box 3015. Elon College, N. C. Troutman, J. M., Jr. Fr. Ag. Infirmary. Statesville, N. C. Trusker, R. T. Fr. Ind. Arts. 115 7th, Box 3315. Elon College, N. C. Trustel, John R. So. M. E. 2104 Hillsboro St. Hendersonville, N. C. Trustall, Thos. H. Fr. Ag. 1167 7th, Box 3314. Hester, N. C. Turner, D. Wight L. Jr. Tex. C. & D. 14 South, Box 3610. Greensboro, N. C. Turner, P. Pickett, Jr. So. Cer. E. 307 A. Greensboro, N. C. Turner, P. Pickett, Jr. So. Cer. E. 307 A. Greensboro, N. C. Turner, P. Pickett, Jr. Fr. E. 205 6th, Box	Threlkeld, Polk L., Ir.	So. Cer. E.	140 1911. Box 3740	Asheville, N. C.
Thurner, J. T. So. For. 109 C Greensboro, N. C. Brilley, T. Marshall So. E. E. 547 E. Hargett St. Bahama, N. C. Tillgan, J. E. Sr. Tex. C. & D. 111 Wat., Box 3011 Wadesboro, N. C. Tinga, Jacob So. Ag. 302 South, Box 3566 Castle Hayne, N. C. Tipton, W. J. So. Ag. Ch. 108 Horne St. Forbes, N. C. Todd, Edwin R. Jr. Cer. E. 2513 Clark Ave. Charlotte, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Toffoli, Peter V., Jr. Fr. M. E. 111 8th. Charlotte, N. C. Toffoli, Peter V., Jr. Fr. M. E. 111 8th. Charlotte, N. C. Tolbert, J. Warren So. E. E. 140 1911, Box 3740. Collettsville, N. C. Tolone, John A. Fr. Tex. Mfg. 112 7th, Box 3312 Montreal, Canada Tommola, Urho. Jr. M. E. 229 A. Brooklyn, N. Y. Pocey, Keith D. Grad. Soils. 6 Enterprise St. Pocatello, Idaho Towers, R. E. Sr. Tex. Mgt. 1702 Hillsboro St., Box 5542. Rome, Ga. Townsend, C. Gordon Sr. Ag. Ed. a South, Box 3215 Concord, N. C. Townsend, C. Gordon Sr. Ag. Ed. a South, Box 3604. Hamer, S. C. Townsend Elbert T. Fr. E. 302 9th. St. Pauls, N. C. Traylor, Don F. Sr. For. 302 Horne St. Raleigh, N. C. Trescott, Waldo So. Tex. Mfg. 219 South, Box 3551 Wollaston, Mass. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3239. Dobson, N. C. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3239. Dobson, N. C. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3315. Elon College, N. C. Trowte, Guye W. So. Ag. Ed. 312 Wat., Box 3048. Forest City, N. C. Trotuct, Guye W. So. Ag. Ed. 312 Wat., Box 3048. Forest City, N. C. Trotuct, Guye W. So. Ag. Ed. 312 Wat., Box 3315. Elon College, N. C. Truster, R. T. Fr. Ind. Arts. 115 7th, Box 3315. Elon College, N. C. Truster, R. T. Fr. For. Greenhouse. Morristown, Tenn. Troute, Guye W. So. M. E. 2004 Hillsboro St. Hendersonville, N. C. Truster, R. T. Fr. Fr. Ag. Infirmary. Statesville, N. C. Truster, R. T. Fr. Fr. Ag. 114 7th, Box 3314. Hester, N. C. Trustall, Shelton. Fr. Ag. 114 7th, Box 3314. Hester, N. C. Trunstall, Shelton. Fr. Ag. 20 Logan Court. Lovingston, Va. Turnstall, Shelton. Fr. Ag. Route 2 Raleigh, N. C. Turner, George H. So. Ch. E.	Thurmond, Roy C.	Fr. Ind. Arts	306 8th	Rocky Mount, N. C.
Tilley, T. Marshall         So. E. E.         547 E. Hargett St.         Bahama, N. C.           Tillman, J. E.         Sr. Tex. C. & D.         111 Wat., Box 3011.         Wadesboro, N. C.           Tinga, Jacob         So. Ag.         302 South, Box 3566.         Castle Hayne, N. C.           Todd, Edwin R.         Jr. Cer. E.         2513 Clark Ave.         Charlotte, N. C.           Todd, Edwin R.         Jr. Cer. E.         2513 Clark Ave.         Charlotte, N. C.           Todd, F. A.         Fr. Ag. Ed.         213 9th.         Wendell, N. C.           Toffoli, Peter V., Jr.         Fr. M. E.         111 8th.         Charlotte, N. C.           Tollmie, John A.         Fr. Tex. Mfg.         112 7th, Box 3312.         Montreal, Canada           Tommola, Urho.         Jr. M. E.         229 A.         Brooklyn, N. Y.           Tovey, Keith D.         Grad. Soils.         6 Enterprise St.         Pocatello, Idaho           Towers, R. E.         Sr. Tex. Mgt.         1702 Hillsboro St., Box 5542.         Rome, Ga.           Towery, Eugene S., Jr.         Jr. Cer. E.         203 5th, Box 3215.         Concord, N. C.           Townsend, C. Gordon         Sr. Ag. Ed.         8 South, Box 3604.         Hamer, S. C.           Townsend Elbert T.         Fr. E. E.         302 9th.         St.	Thurner I T	So For	109 C	Greenshoro, N. C.
Tillman, J. E. Sr. Tex. C. & D. 111 Wat, Box 3011. Wadesboro, N. C. Tinga, Jacob. So. Ag. 302 South, Box 3566. Castle Hayne, N. C. Tipton, W. J. So. Ag. Ch. 108 Horne St. Forbes, N. C. Todd, Edwin R. Jr. Cer. E. 2513 Clark Ave. Charlotte, N. C. Todd, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Todde, F. A. Fr. Ag. Ed. 213 9th. Wendell, N. C. Toffoli, Peter V., Jr. Fr. M. E. 111 8th. Charlotte, N. C. Toffoli, Peter V., Jr. Fr. M. E. 111 8th. Charlotte, N. C. Tolmie, John A. Fr. Tex. Mfg. 112 7th, Box 3740. Collectsville, N. C. Tolmie, John A. Fr. Tex. Mfg. 112 7th, Box 3312. Montreal, Canada Tommola, Urho. Jr. M. E. 229 A. Brooklyn, N. Y. Tovey, Keith D. Grad, Soils. 6 Enterprise St. Pocatello, Idaho Towers, R. E. Sr. Tex. Mgt. 1702 Hillsboro St., Box 5542. Rome, Ga. Towery, Eugene S., Jr. Jr. Cer. E. 203 5th, Box 3215. Concord, N. C. Townsend, C. Gordon Sr. Ag. Ed. 8 South, Box 3604. Hamer, S. C. Townsend Elbert T. Fr. E. E. 302 9th. St. Pauls, N. C. Traylor, Don F. Sr. For. 302 Horne St. Raleigh, N. C. Traylor, Don F. Sr. For. 302 Horne St. Raleigh, N. C. Trescott, Waldo. So. Tex. Mfg. 219 South, Box 3551. Wollaston, Mass. Trevathan, Louis B. So. Ag. E. 103 6th, Box 3239. Dobson, N. C. Tresler, H. Flowe. Fr. E. E. 230 8th. Wadesboro, N. C. Trobungh, T. R. Fr. Flori. Greenhouse. Morristown, Tenn. Troute, Guye W. So. Ag. Ed. 312 Wat., Box 3048. Forest City, N. C. Troutman, J. M., Jr. Fr. Ag. Infirmary. Statesville, N. C. Truex, A. Crawford. So. M. E. 115 South, Box 3515. Greensboro, N. C. Trust, A. Crawford. So. M. E. 115 South, Box 3515. Greensboro, N. C. Trustall, Shelton. Fr. Ag. 114 7th, Box 3315. Coats, N. C. Tunstall, Thos. H. Fr. Ag. 20 Logan Court. Lovingston, Va. Turnstall, Shelton. Fr. Ag. 21 Loyan Court. Lovingston, Va. Turnstall, Shelton. Fr. Ag. 20 Logan Court. Lovingston, Va. Turner, C. W. Grad. Soils. 220 Cox Ave. North Scituate, R. I. Turner, Powight L. Jr. Tex. C. & 14 South, Box 3314. Hester, N. C. Turner, George H. So. Ch. E. 407 S. Boylan Ave. Clinton, N. C. Turner, P. Pickett, Jr. So. Cer. E.	Tilley, T. Marshall	So. E. E	547 E. Hargett St	Bahama, N. C.
Tinga, Jacob.         So. Ag.         302 South, Box 3566.         Castle Hayne, N. C.           Tipton, W. J         So. Ag. Ch.         108 Horne St.         Forbes, N. C.           Todd, Edwin R         Jr. Cer. E.         2513 Clark Ave.         Charlotte, N. C.           Todfol, F. A         Fr. Ag. Ed.         213 9th.         Wendell, N. C.           Toffoli, Peter V., Jr.         Fr. M. E.         111 8th.         Charlotte, N. C.           Tolmor, J. Warren.         So. E. E         140 1911, Box 3740.         Collettsville, N. C.           Tolmie, John A         Fr. Tex. Mfg.         112 7th, Box 3312.         Montreal, Canada           Tommola, Urho         Jr. M. E.         229 A.         Brooklyn, N. Y.           Tovey, Keith D         Grad. Soils.         6 Enterprise St.         Pocatello, Idaho           Towery, Eugene S., Jr.         Jr. Cer. E.         203 5th, Box 3215.         Concord, N. C.           Townsend, C. Gordon         Sr. Ag. Ed.         8 South, Box 3604.         Hamer, S. C.           Townsend, C. Gordon         Sr. For.         302 Horne St.         Raleigh, N. C.           Traylor, Don F         Sr. For.         302 Horne St.         Raleigh, N. C.           Trescott, Waldo         So. Tex. Mfg.         219 South, Box 3551. <td< td=""><td>Tillman, I. E.</td><td>Sr. Tex. C. &amp; D</td><td>111 Wat., Box 3011</td><td>Wadesboro, N. C.</td></td<>	Tillman, I. E.	Sr. Tex. C. & D	111 Wat., Box 3011	Wadesboro, N. C.
Todd, F. A.         Fr. Ag. Ed.         213 9th.         Wendell, N. C.           Toffoli, Peter V., Jr.         Fr. M. E.         111 8th.         Charlotte, N. C.           Tolbert, J. Warren.         So. E. E.         140 1911, Box 3740.         Collettsville, N. C.           Tolmie, John A.         Fr. Tex. Mfg.         112 7th, Box 3312.         Montreal, Canada           Tommola, Urho.         Jr. M. E.         229 A.         Brooklyn, N. Y.           Tovey, Keith D.         Grad. Soils.         6 Enterprise St.         Pocatello, Idaho           Towers, R. E.         Sr. Tex. Mgt.         1702 Hillsboro St., Box 5542.         Rome, Ga.           Townsend, C. Gordon         Sr. Tex. Mgt.         1702 Hillsboro St., Box 5542.         Rome, Ga.           Townsend, C. Gordon         Sr. Ag. Ed.         8 South, Box 3604.         Hamer, S. C.           Townsend Elbert T.         Fr. E.         302 9th.         St. Pauls, N. C.           Tresort, Waldo.         So. Tex. Mfg.         219 South, Box 3551.         Wollaston, Mass.           Trevathan, Louis B.         So. Ag. E.         103 6th, Box 3239.         Dobson, N. C.           Trexaler, H. Flowe.         Fr. E.         230 8th.         Wadesboro, N. C.           Troutae, Guye W.         So. Ag. Ed.         312 Wat., Box 3048.	Tinga Iacob	So Ar	302 South Box 3566	Castle Havne N. C.
Todd, F. A.         Fr. Ag. Ed.         213 9th.         Wendell, N. C.           Toffoli, Peter V., Jr.         Fr. M. E.         111 8th.         Charlotte, N. C.           Tolbert, J. Warren.         So. E. E.         140 1911, Box 3740.         Collettsville, N. C.           Tolmie, John A.         Fr. Tex. Mfg.         112 7th, Box 3312.         Montreal, Canada           Tommola, Urho.         Jr. M. E.         229 A.         Brooklyn, N. Y.           Tovey, Keith D.         Grad. Soils.         6 Enterprise St.         Pocatello, Idaho           Towers, R. E.         Sr. Tex. Mgt.         1702 Hillsboro St., Box 5542.         Rome, Ga.           Townsend, C. Gordon         Sr. Tex. Mgt.         1702 Hillsboro St., Box 5542.         Rome, Ga.           Townsend, C. Gordon         Sr. Ag. Ed.         8 South, Box 3604.         Hamer, S. C.           Townsend Elbert T.         Fr. E.         302 9th.         St. Pauls, N. C.           Tresort, Waldo.         So. Tex. Mfg.         219 South, Box 3551.         Wollaston, Mass.           Trevathan, Louis B.         So. Ag. E.         103 6th, Box 3239.         Dobson, N. C.           Trexaler, H. Flowe.         Fr. E.         230 8th.         Wadesboro, N. C.           Troutae, Guye W.         So. Ag. Ed.         312 Wat., Box 3048.	Tipton, W. J.	So. Ag. Ch	108 Horne St	Forbes, N. C.
Toffoli, Peter V., Jr.   Fr. M. E.   111 8th   Charlotte, N. C.   Tolbert, J. Warren   So. E. E.   140 1911, Box 3740   Collettsville, N. C.   Tolmie, John A   Fr. Tex. Mfg.   112 7th, Box 3312   Montreal, Canada   Tommola, Urho   Jr. M. E.   229 A   Brooklyn, N. Y.   Tovey, Keith D   Grad. Soils   6 Enterprise St.   Pocatello, Idaho   Towers, R. E   Sr. Tex. Mgt   1702 Hillsboro St., Box 5542   Rome, Ga.   Townsend, C. Gordon   Sr. Ag. Ed.   8 South, Box 3215   Concord, N. C.   Townsend, C. Gordon   Sr. Ag. Ed.   8 South, Box 3604   Hamer, S. C.   Townsend, C. Gordon   Sr. Ag. Ed.   8 South, Box 3604   Hamer, S. C.   Townsend Elbert T   Fr. E   302 9th   St. Pauls, N. C.   Traylor, Don F   Sr. For.   302 Horne St.   Raleigh, N. C.   Trescott, Waldo   So. Tex. Mfg   219 South, Box 33551   Wollaston, Mass.   Trevathan, Louis B   So. Ag. E   103 6th, Box 3239   Dobson, N. C.   Trester, H. Flowe   Fr. E   230 8th   Wadesboro, N. C.   Trobaugh, T. R.   Fr. Flori.   Greenhouse   Morristown, Tenn.   Troute, Guye W   So. Ag. Ed.   312 Wat., Box 3048   Forest City, N. C.   Trother, R. T   Fr. Ag.   Infirmary   Statesville, N. C.   Troxler, R. T   Fr. Ind. Arts   115 7th, Box 3315   Elon College, N. C.   Trutt, John R   So. M. E   2004 Hillsboro St.   Hendersonville, N. C.   Trunstall, Shelton   Fr. Ag.   114 7th, Box 3314   Hester, N. C.   Tunstall, Shelton   Fr. Ag.   21 South, Box 3617   Draper, N. C.   Tunstall, Thos. H   Fr. Ag.   20 Logan Court   Lovingston, Va.   Turnbeville, James R   Fr. E   205 6th, Box 3253   Coats, N. C.   Turner, Owight L   Jr. Tex. C. & D. 14 South, Box 3610   Greensboro, N. C.   Turner, Dwight L   Jr. Tex. C. & D. 14 South, Box 3610   Greensboro, N. C.   Turner, Dwight L   Jr. Tex. C. & D. 14 South, Box 3016   Washington, D. C.   Turner, P. Pickett, Jr. So. Cer. E. 307 A   Greensboro, N. C.   Turner, P. Pickett, Jr. So. Cer. E. 307 A   Greensboro, N. C.   Turner, P. Pickett, Jr. So. Cer. E. 307 A   Greensboro, N. C.   Turner, Thos. M   Fr. Gen. Engr. 229 8th   Washington, D. C.   Twitty	Todd, Edwin R	Jr. Cer. E	2513 Clark Ave	Charlotte, N. C.
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Tolmie, John A.         Fr. Tex. Mfg.         112 7th, Box 3312         Montreal, Canada           Tommola, Urho.         Jr. M. E.         229 A         Brooklyn, N. Y.           Tovey, Keith D.         Grad. Soils.         6 Enterprise St.         Pocatello, Idaho           Towers, R. E.         Sr. Tex. Mgt.         1702 Hillsboro St., Box 5542         Rome, Ga.           Townsend, C. Gordon.         Sr. Ag. Ed.         8 South, Box 3215         Concord, N. C.           Townsend Elbert T.         Fr. E.         302 9th         Hamer, S. C.           Townsend Elbert T.         Fr. E.         302 9th         St. Pauls, N. C.           Traylor, Don F.         Sr. For.         302 Horne St.         Raleigh, N. C.           Trescott, Waldo.         So. Tex. Mfg.         219 South, Box 3551         Wollaston, Mass.           Trexetr, H. Flowe.         Fr. E. E.         230 8th         Wadesboro, N. C.           Trobaugh, T. R.         Fr. Flori.         Greenhouse.         Morristown, Tenn.           Troute, Guye W.         So. Ag. Ed.         312 Wat., Box 3048.         Forest City, N. C.           Trouler, R. T.         Fr. Ag.         Infirmary.         Statesville, N. C.           Trouler, Quye W.         So. Ag. Ed.         312 Wat., Box 3315.         Elon College, N. C. <td>Toffoli, Peter V., Jr</td> <td> M. E</td> <td>III 8th</td> <td>Callatanilla N. C.</td>	Toffoli, Peter V., Jr	M. E	III 8th	Callatanilla N. C.
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Towery, Eugene S., Jr.         Jr.         Cer. E.         203 5th, Box 3215.         Concord, N. C.           Townsend, C. Gordon         Sr. Ag. Ed.         8 South, Box 3604.         Hamer, S. C.           Townsend Elbert T.         Fr. E. E.         302 9th.         St. Pauls, N. C.           Traylor, Don F.         Sr. For.         302 Horne St.         Raleigh, N. C.           Trescott, Waldo         So. Tex. Mfg.         219 South, Box 3551.         Wollaston, Mass.           Trevathan, Louis B.         So. Ag. E.         103 6th, Box 3239.         Dobson, N. C.           Trexler, H. Flowe         Fr. E. E.         230 8th.         Wadesboro, N. C.           Trobaugh, T. R.         Fr. Flori.         Greenhouse         Morristown, Tenn.           Troute, Guye W.         So. Ag. Ed.         312 Wat., Box 3048.         Forest City, N. C.           Trouter, Guye W.         So. Ag. Ed.         312 Wat., Box 3048.         Forest City, N. C.           Trouter, Guye W.         So. Ag. Ed.         312 Wat., Box 3048.         Forest City, N. C.           Trouter, Guye W.         So. Ag. Ed.         312 Wat., Box 3048.         Forest City, N. C.           Trouter, Guye W.         So. M. E.         2004 Hillsboro         St. Elon College, N. C.           Trouter, Guye W.         So. M. E.	Towers, R. E.	Sr. Tex. Mgt.	1702 Hillsboro St., Box 5542	Rome, Ga.
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Townsend Elbert T.         Fr. E.         302 9th         St. Pauls, N. C.           Traylor, Don F.         Sr. For.         302 Horne St.         Raleigh, N. C.           Trescott, Waldo         So. Tex. Mfg.         219 South, Box 3551         Wollaston, Mass.           Trevathan, Louis B.         So. Ag. E.         103 6th, Box 3239         Dobson, N. C.           Trexler, H. Flowe         Fr. E. E.         230 8th         Wadesboro, N. C.           Trobaugh, T. R.         Fr. Fori.         Greenhouse         Morristown, Tenn.           Troute, Guye W.         So. Ag. Ed.         312 Wat., Box 3048         Forest City, N. C.           Troute, Guye W.         So. Ag. Ed.         312 Wat., Box 3048         Forest City, N. C.           Troute, Guye W.         So. Ag. Ed.         312 Wat., Box 3048         Forest City, N. C.           Troute, Guye W.         So. Ag. Ed.         312 Wat., Box 3048         Forest City, N. C.           Troute, Guye W.         So. M. E.         Infirmary.         Statesville, N. C.           Trouter, Guye W.         So. M. E.         115 Toks.         Box 3018         Forest City, N. C.           Trouter, G. Tructer, G. T.         Fr. Ind. Arts.         115 Toks. Os 3315         Greensboro, N. C.           Trustall, John R.         So. M. E.         21 Sout	Townsend, C. Gordon	Sr. Ag. Ed	8 South, Box 3604	Hamer, S. C.
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Watrick, Woodley C	Jr. Ag. E Sr. An Prod	329 South, Box 3593228 South, Box 3560	Rlanch N C
Watkins, George H.	So Tey Mfg	228 South, Box 3300	Wentworth, N. C.
Watson, A. Buford		310 6th, Box 3270	Fayetteville, N. C.
Watson, Chas. K	Sr. Tex. C. & D	310 6th, Box 3270	Red Springs, N. C.
Watson, George F	r. Tex. Mfg	304 4th, Box 3130	Salisbury, N. C.
Watson, Malcolm E	Jr. E. E.	.239 Å	Winston-Salem, N. C.
Watson Romulus C	jr. Ag. Engr Ir. Ag	239 A	Swan Quarter N C
Watson, S. Robert, Ir	Grad. E. E.	Hawthorne Rd	Henderson, N. C.
Watters, Jimmie V.	So. Ind. Arts	222 A, Box 5351	Bridgeport, Pa.
		,	

Name	Classification	School Address	Home Address
Watts, John M	Fr. Ag	4 Maiden Lane	Statesville, N. C.
Watts, Richard H., Jr	Jr. Tex. W. & D	2513 Clark Ave	Baldwin, N. Y.
Waugh, Clyde M	.Sr. Pom	202 C, Box 5373	Raleigh N C
Way, narry 1	Sr. Tex. Mgt.	18 Horne St.	Asheville, N. C.
Wayne Lecter K Ir	Pr Ac	/ 19 /rn DOX 3331	Daldwin, IX. L.
Waynick, Daniel T	.Sr. M. E	103 A	Greensboro, N. C.
Waynick, J. Walter	Fr. Tex. Mfg	103 A	Greensboro, N. C.
Weatherly F P	Sr. C. E.	2405 Clark Ave	Columbia N C
Weaver David S	So Ch E.	520 Daughtridge St	Raleigh, N. C.
Weaver Frank D. Ir	Ir Ch E	226 South, Box 3558	Wilmington, N. C.
Weaver, I. R., Ir.	So. M. E.	307 5th, Box 3231	Hickory, N. C.
Weaver, R. E.	.Fr. E. E	338 1911, Box 3818	Asheville, N. C.
Webb, Fred A., Jr.	Sr. Ind. Arts	310 5th, Box 3234 2407 Clark Ave	Kaleigh, N. C.
Weber Chas P	Sr Tex Mat	10 Enterprise St	Glen Rock, N. I.
Weeks, Samuel I.	.Sr. F. C. & P. B	2312 Byrd St	Raleigh, N. C.
Welch, Samuel B	So. Tex. Mfg	210 South,	
177 16 TY TO 7	*	Mail: 1922 Hillsboro St  103 Chamberlain St	Charlotte, N. C.
Weltare, Wm. F., Jr	.Jr. Ag	105 Chamberlain St	Wilson, N. C.
Wella Sharred P	Jr. C. E	517 Polk St 108 South, Box 3508	Rocky Mount N C
Wenige Arthur F.	Fr C E	208 5th. Box 3220	Asheville, N. C.
Wessell, C. B., Ir.	Fr. Geol. E	208 5th, Box 3220	Wilmington, N. C.
Wesson, R. H.	.Fr. Ag	4 8th	Littleton, N. C.
Wesson, Wm. T.	.Sr. Ag. Ec	10 South, Box 3606	Elams, N. C.
West, S. Gordon, Jr.	Fr. M. E	322 8th	Greensboro, N. C.
Wester Al R Ir	Sr. Ch. F	104 Wat., Box 3004	Henderson N C
Wetmore, Edwin H.	Sr. Ag. Ed.	112 Cox Ave	Woodleaf, N. C.
Wetmore, Paul H	. Jr. Ag. Ed	112 Cox Ave	Woodleaf, N. C.
Wheatley, Chas. H	.Jr. Arch. E	134 1911, Box 3734	Washington, N. C.
Wheeler, Molton H	Jr. E. E	135 1911, Box 3735	Benson, N. C.
White Everett S	.50. Ag	127 1911, Box 3727	Colorain N C
White, Frank B.	So Tex Mfg	25 8th	Lenoir, N. C.
White, John E.	Fr. For.	311 South, Box 3543	Andrews, N. C.
White, J. Edward, Jr	So. M. E	209 Wat., Box 3027	Oak Hill, W. Va.
White, Julian E., Jr	So. Dairy Mfg	309 W. Edenton St	Raleigh, N. C.
White, James M., Jr.	M. E	1103 Harvey St	Raleigh, N. C.
White Robert N Ir	so. Ag Sr. Flori	303 6th, Box 3263 1720 Hillsboro St	Winston-Salem, N. C.
Whitehead, J. D., III	Fr. Ag	Withdrew Sept. 18	Enfield, N. C.
Whitehurst, W. Branch	Fr. Tex. Mfg.	327 7th, Box 3394	Greensboro, N. C.
Whiteside, Carl	So. Ag. Ed	312 5th, Box 3236	Rutherfordton, N. C.
Whitheld, L. E., Jr.	Sr. M. E	12 South, Box 3608	Asheboro, N. C.
Whitley M Ray	rr. C. E Ir F F	322 7th, Box 3388210 5th, Box 3222	Washington N C
Whitley, R. W.	Grad. Soils	2729 Everett Ave	Raeford, N. C.
Whitley, Sam D	Fr. Ag	223 C	Matthews, N. C.
Whitley, V. J., Jr	Fr. Ag	17 8th	Marshville, N. C.
Whitson, Chas.	Jr. M. E	212 South, Box 3544	Asheville, N. C.
Wicker James P	50. E. E Fr M F	129 C, Box 5334	Pinehuret N C
Wicker, June S	Ir. W. C. & M	5 South, Box 3601	Sanford, N. C.
Wicker, Robert L.	Sr. C. E	1620 Hillsboro St.	Sanford, N. C.
Wiggin, Norman K	.So. Tex. Mfg	102 6th, Box 3238	Manoa, U. D., Pa.
Wiggins, George T	Fr. An. Prod	20 8th	Mt. Olive, N. C.
Wiggins, John E., Jr.	Jr. For	111 A	Sunbury, N. C.
Wilder, C. A	Ag. Ed	Route 5225 1911, Box 3765	Carthage, N. C.
Wilfong, John I.	So. Ag.	237 A	Lexington, N. C.
, J J			

Name	Classification	School Address	Home Address
Wilkinson, J. W.	Sr. E. E.	340 C	Burnside Kv
Willey, John F.	Sr. Ag. Ed.	340 C 204 Wat., Box 3022	Gates, N. C.
Williamowsky, D. Joe	Fr. M. E	111 7th, Box 3311	Alexandria, Va.
Williams, Arthur R., Jr	Sr. Tex. C. & D		Greensboro, N. C.
Williams, E. Avery, Jr	Sr. Cer. E	109 Wat., Box 3009	Swan Quarter, N. C.
Williams, Frank D	So. For	322 A 103 Chamberlain St	Rocky Mount, N. C.
Williams, J. Ed	Jr. Tex. Mfg	103 Chamberlain St	Washington, N. C.
Williams, John F., Jr.	Fr For	226 Sth	Silver Springe Md
Williams, John R	Sr. C. E	115 Woodburn Road	Arlington, Va.
Williams, L. C., Jr.	So. C. E	211 Hawthorne Rd	Salisbury, N. C.
Williams Leon B Ir	Sr M H	1914 Daula Daissa	Dalaial N C
Williams, M. S.	r. Ag.		Hillsboro, N. C.
Williams, P. M., Jr	fr. E. E	Withdrew Sept. 18	Stokesdale, N. C.
Williams, Kalph B	Jr. Ch. E	131 A	Warrenton, N. C.
Williams, Kalph O	Jr. Ch. E	112 C	Granite Falls, N. C.
Williams, Sidney K	5r. E. E	313 C	Essex, N. C.
Williams T Mas	Jr. Cn. E	2232 Hillsboro St., Box 5002 405 Calvin Road 1800 St. Marys St.	Winston-Salem, N. C.
Williams Walter P	JI. Ch. E	1900 C. M C.	Raieign, N. C.
Williams Wm S Ir	So Toy Mfg	120 A	Raieign, N. C.
Williamson I C Ir	Fr Ac	303 9th	Rothol N C
Williamson John V Ir	Fr Ch F	116 A	Lumberton N C
Willis, F. Harvey	Fr Ind F	1301 Hillshore St	Stamford Conn
Willis, Hubert M.	Ir F C & P B	330 South Box 3594	Flizabethtown N C
Willis, Jim W.	Ir. E. E.		Memphis Tenn
Willis, K. E.	Fr. Ind. Arts	223 8th	Morehead City, N. C.
Wilson, Barrett D., Ir.	Fr. Arch. E	2408 Fairview Road	Raleigh, N. C.
Wilson, George W., Ir.	Fr. Ao.	232 South Box 3564	Danville, Va.
Wilson, Hollis E.	Fr. Ao Ed	230 8th	Linwood N C
Wilson, S. K., Jr.	Fr. Ag.	329 8th	Guilford College, N. C.
Wilson, S. Leigh	Jr. For	329 8th	Arlington, Va.
Wilson, I. Edwin	So. For	121 Montgomery St., Box 500	1 Soonchun, Iapan
Wilson, Wm. M.	So. C. F	125 Woodburn Rd.	Hendersonville, N. C.
Wilson, W. Sid	Jr. E. E	2512 Clark Ave.	Yanceyville, N. C.
Windourne, Willard I	Fr. Ag	203 10th	Bailey, N. C.
Winchester, D. Keece	Fr. Ch. E	-229 7th, Box 3361	Monroe, N. C.
Windley Wm D	rr. Ch. E	326 8th	Monroe, N. C.
Winfrey I Free Ir	F- C F	-312 5th, Box 3236	Beinaven, N. C.
Winiarski Leonald I	Fr. C. E	120 7th, Box 3320	New Podford Moss
Winn, Wendal! I	So Land Arch	201 A	Norfolk Va
Winslow, Watt	Fr Cer F	201 A	Hertford N C
Winstead, R. C.	So Ind Arts	126 South, Box 3526	Semora N C
Winstead, Ralph W.	Fr. For.	-314 7th, Box 3380	Macclesfield, N. C.
Winston, Elliot H.	Fr Tey Mfg	218 7th Roy 3350	New York N Y
Witherington, R. Haywood	dSr. W. C. & M	22091/2 Hope St.	Winston-Salem, N. C.
Withrow, E. J.	Sr. Ag. Ed		Forest City, N. C.
Withfow, foe D.	Hr ( H		Forest City N C
Woltz, W. G.	Grad. F. C. & P. B.		Bullock, N. C.
Womble, John W., Jr	Sr. Ch. E	311 Wat., Box 3047	Greensboro, N. C.
wommack, Kenneth L	So. M. E	121 C	Winston-Salem, N. C.
Wommack, Wm. W	Fr. Ch. E	308 8th	Winston-Salem, N. C.
		.125 8th	
Wood, D. L.	Fr. Tex. C. & D	327 8th	Gastonia, N. C.
Wood, James A., Jr.	rr. Ch. E	.216 8th	Charlotte, N. C.
Wood, Robert W.	Fr. For.	.110 7th, Box 3310	Port Richmond, N. Y.
Woodall Hubors C	rr. Cer. E.	201 8th	Smithneld, N. C.
Woodard G Vornon	or. 1 ex. W. & D	.101 Wat., Box 3001	Spring Hope N. C.
Woodhouse Chas R	Ir W C & M	5 8th	Fligabethtown N C
Woodley Preston S		5 South, Box 3601	Creswell N C
Woodward, I. A	Fr. Ind F	.228 7th, Box 3360	Winston-Salem, N. C.
Woody, George S.	Fr. Ag.	.2 9th	Snow Camp. N. C.

Name	Classification	School Address	Home Address
Wooten, Ed. F	So. E. E.	3 Maiden Lane	Greenville, N. C.
Wooten, Francis L., Jr	So. Ch. E.	1618 Hillsboro St	Winston-Salem, N. C.
Wooten, J. A., Jr.	Fr. E. E.	104 7th, Box 3304	Rocky Mount, N. C.
Wooten, Louis E., Jr	Sr. C. E	311 W. Park Drive	Raleigh, N. C.
Wooten, S. A., Jr.	Fr. E. E.	134 7th, Box 3402	Macclesfield, N. C.
Wooten, T. Marshall	Jr. Ag. Ch	227 A	Greenville, N. C.
Worley, Tracy W., Jr	Fr. M. E	433 Halifax St	Raleigh, N. C.
		202 7th, Box 3334	
		303 South, Box 3567	
		211 9th	
Wrenn, R. W.	Grad. Ch. E	220½ Cox Ave	Raleigh, N. C.
Wright, D. R., Jr	So. Ch. E	312 Ā	Wilkesboro, N. C.
Wright, G. Hudson	So. M. E	309 South, Box 3573	Laurinburg, N. C.
Wright, Lewis C	So. Ch. E	103 Chamberlain St	Asheville, N. C.
Wright, Robert H., III	Fr. C. E	211 Hawthorne Rd	Raleigh, N. C.
		311 7th, Box 3377	
Yancey, W. A	Fr. Flori	105 A	Raleigh, N. C.
Yates, Ben F	Fr. Ag.	219 7th, Box 3351 240 1911, Box 3780	Chadbourn, N. C.
Yates, Fred B.	Sr. W. C. & M	240 1911, Box 3780	Chadbourn, N. C.
		308 9th	
		319 8th	
		229 A	
Yoder, Wm. L., Jr	Fr. E. E	131 7th, Box 3331	Raleigh, N. C.
		6 8th	
Your El O	r. Ch. E	604 Oakwood Ave	Kaleigh, N. C.
Young, Ed. U.	Jr. E. E	340 1911, Box 3820	Oxford, N. C.
Variation W	Jr. E. E	204 4th, Box 3122	Swannanoa, N. C.
Vous Manie D. I.	Jr. Cn. L	204 4th, Box 3122 208 8th	Asneville, N. C.
roung, Marvin F., Jr	FT. E. E	208 8tn	Princeton, N. C.
Zachary I P Ir	Fr Ch F	226 C	Tayloroville N C
		220 C	
Zehner Richard F	So Ag	2715 Vanderbilt Ave	Dooding Do
Zellweger Fraest R	Fr Gen Fnor	224 7th, Box 3356	Palicade N I
Zerilli Frank I	Sr M F	339 A	Brooklyn N Y
Zuckerman Jacob H	So M F	230 A	Durham N C
Zacacinian, Jacob II			Duttiain, IV. C.







